JENSEN

VM9413

Operation Manual

Manual de Operación

Instructions d'opération

TOUCHSCREEN DVD VIDEO HD Radio SD CARD READER USB Made for iPod WMA MP3 ID3 TAG EQ

160 Watts Peak
Watts en Crête
Vatios el Máximo
40W x 4

CONTENTS

Thank you for choosing a Jensen product. We hope you will find the instructions in this owner's manual clear and easy to follow. If you take a few minutes to look through it, you'll learn how to use all the features of your new Jensen VM9413 Mobile Multimedia Receiver for maximum enjoyment.

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CONTENIDO

Gracias por elegir los productos Jensen. Esperamos que encuentre en este manual instrucciones claras y fáciles de seguir. Si se toma unos pocos minutos para leerlo, aprenderá cómo utilizar todas las funciones de su nuevo radio Jensen VM9413 para su máximo entretenimiento.

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INTRODUCTION

Congratulations on your purchase of the Jensen VM9413 Mobile Multimedia Receiver.

It's a good idea to read all of the instructions before beginning the installation. We recommend having your head unit installed by a reputable installation shop.

Features

DVD

- Aspect Ratio - Cinema, Normal and OFF (Standby)
- Fast Forward, Fast Reverse - 2X, 4X, 6X and 8X
- Slow Forward, Slow Reverse - 2X, 4X and 8X
- Play, Pause, Stop, Next Chapter and Previous Chapter
- ESP - 2MB Buffer

CD / MP3 / WMA

- ID3 Tag Compatible
- Directory Search (MP3 / WMA Only)
- Direct Track Access via Remote control
- Burn Up To 1500 MP3 and WMA Files onto a DVD+R / RW
- Audible Forward / Reverse Track Search
- Random, Repeat and Intro
- Play, Pause, Stop, Next Track and Previous Track
- ESP - 2MB Buffer

Tuner

- HDRM-2 HD Radio Module*
- USA / Europe Frequency Spacing
- 24 Station Presets (18 FM / 6 AM)
- Auto Stereo / Mono
- Auto Store

Sat Radio Ready

- Requires XM CNP2000UC and CNPJEN1 (Both Sold Separately)
- Satellite Channel Name, Artist, Song and Categories Displayed on TFT Screen

iPod

- High Speed Direct Connect Interface to Access iPod Playlists, Artists, Albums and Songs. Play music and view video files from your iPod.
- Power Management Charges iPod while Connected
- Requires jLink^3 iPod Interface Cable (included)
- iTunes® Tagging

MediaLink^4

- Under Dash Interface Allows Portable Media Devices to be Connected
- MediaLink^4 Includes the Following Connectivity:
  - USB - Supports Hard Drives and Flash Memory Drives
  - jLinkDirect for iPod
  - RCA Audio /Video Input

Chassis

- 1.0 DIN (Import/ISO-DIN Mountable)
- 7" Motorized Swivel Flip-Out/Flip-UpTFT Active Matrix LCD with Anti-Glare Coating
- Screen Tilt/Angle Adjustment
- Heat Management System - Forced-Air Cooling to Keep the Chip Sets Operating at Nominal Temperatures

General

- Bluetooth ready with hands-free profile for safety / convenience and A2DP profile for streaming music from a PDA / PMP
- Navigation Ready (NAV102 Only)
- Infrared Remote Control
- Two Composite Video Outputs for Additional Screens
- Compatible with MZ7TFT Rear Seat Monitors with Touch Screen Interface
- Two Audio /Video Auxiliary Inputs
- 200-Ohm Preamp Line Output - All Audio Channels
- 4VRMS Line Output - All Channels
- Rotary Encoder Audio Control
- Seven-Band EQ with Eight Preset EQ Curves
- Spectrum Analyzer
- Front, Rear, and Subwoofer Line Output
- Subwoofer Crossover and Phase Control
- Programmable Volume Control
- Rear Camera Input (Normal and Mirror Image View)
- Auto TFT Dimmer
- 5-Way Joystick
- SWC Interface – Compatible with PAC adapter SWI-PS Steering Wheel Control Interface, sold separately

Optional Equipment

- **NAV102**
  The head unit is "navigation ready." Before accessing any navigation features, you must purchase and install the NAV102 module. All installation and operating instructions will be included with the NAV102 navigation module.
  Once the NAV102 is connected and operating properly, the NAV source mode will become active. While the NAV102 is not installed, the NAV option appears gray, indicating the function is not available.
- **Rear Camera**
  The head unit is "camera ready." Before accessing any camera features, you must purchase and install a rear video camera. Once the rear camera is connected and operating properly, the CAMERA source mode will become active. While the camera is not installed, the CAMERA option appears gray, indicating the function is not available.
- **Satellite Radio Tuner**
  See "Satellite Radio Operation" on page 17.
- **iPod**
  See "Playing MP3/WMA Files" on page 23.
- **Bluetooth Phone**
  See "Bluetooth Operation" on page 28.

WARNING! To reduce the risk of a traffic accident (except when using for rear view video camera) never use the video display function while driving the vehicle. This is a violation of federal law.

WARNING! Never disassemble or adjust the unit.

WARNING! To prevent injury from shock or fire, never expose this unit to moisture or water.

WARNING! Never use irregular discs.

WARNING! To prevent damage to the mechanism inside this unit, avoid impact to the TFT monitor.

WARNING! Using an improper fuse may cause damage to the unit and result in a fire.

WARNING! The monitor employs an automatic motorized mechanism. To prevent damage to the core mechanism, please do not push, pull or swivel the monitor manually, other than in the manner explained in "Monitor Left/Right Angle Adjustment" on page 7.

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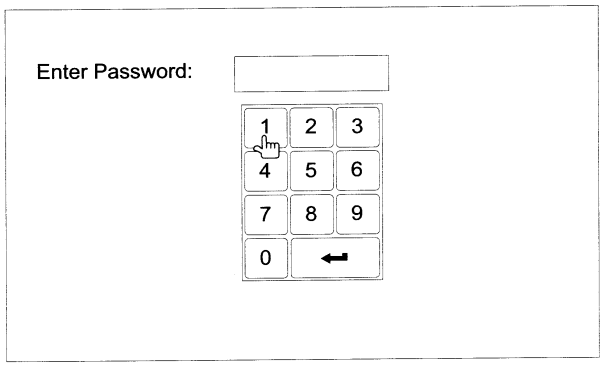
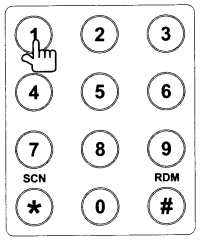
ANTI-THEFT FEATURE

The VM9413 is equipped with an anti-theft feature requiring the user to enter a password upon initial power on.



Entering the Default Password

The default user password is 012345 (6 digits). Enter the password using the on-screen keypad and then press the Enter (arrow) button. You can also use the remote control keypad to enter the password.

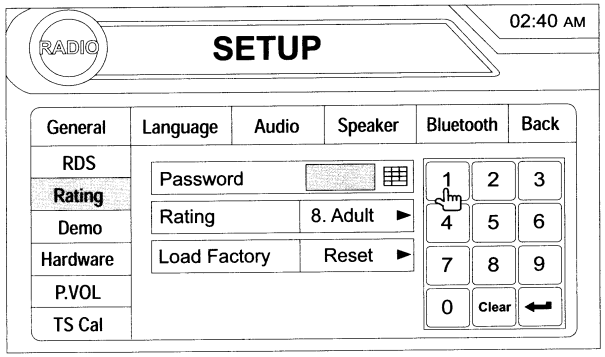


Press the joystick Enter button (18) on the remote control to confirm.

Changing the Password

To change the anti-theft and RATINGS protection password, perform the following steps:

1. Press the **SETUP** button (31) on the remote control or touch the button on the screen to enter the "SETUP" menu.
2. Touch **RATING** to view the "RATING" sub-menu. An open lock icon to the right of the "Password" field indicates that a user password had not yet been entered.
3. Touch the keypad icon next to the blue box in the "Password" field to open the on-screen keypad.



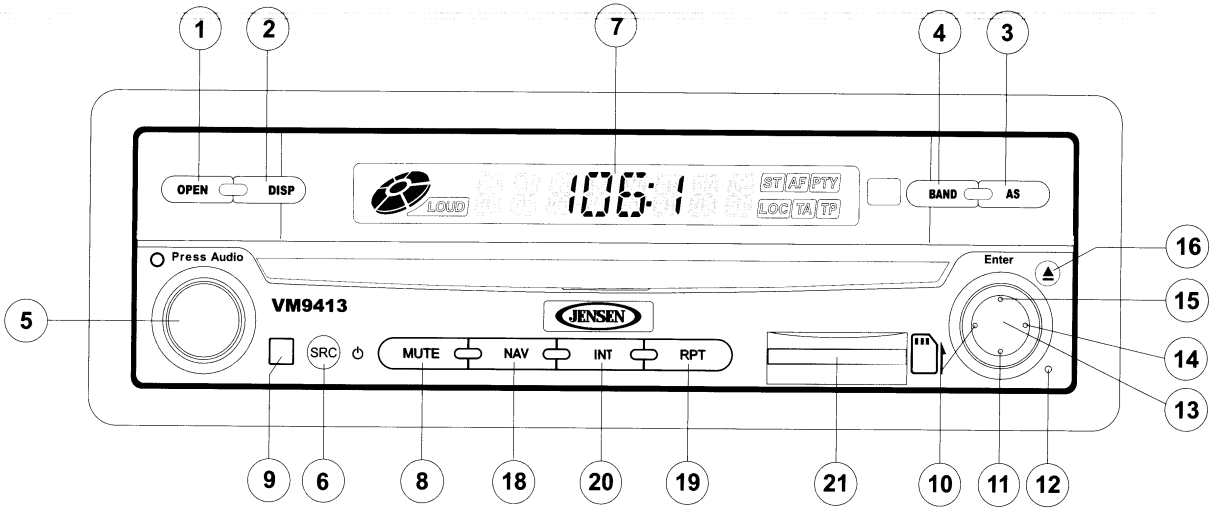
4. Enter a new 6-digit password and press the Enter (arrow) button.

   The "lock" icon will now appear closed and the new anti-theft password will be set, as well as the password for RATING protection (see "Rating Sub-menu Features" on page 12).

NOTE: If you forget your password, contact Customer Service at 1-800-323-4815 for assistance.

CONTROLS AND INDICATORS

Button Operation



1. OPEN/CLOSE

Press to activate the automatic mechanical system and move the TFT monitor into viewing position. Press again to close the TFT.

2. DISP

With the TFT monitor open, press to cycle through information available on the TFT screen.

With the TFT monitor closed, *press and hold* to view the clock.

In DVD Mode, press to view the top and bottom information bars. Press again to turn "Display Off".

3. AS

Press to automatically store the first six strong stations in preset memory. Applies to current band only.

4. BAND

Press the **BAND** button to change the AM, FM or SAT band.

5. AUDIO

Rotate to adjust the volume. Press to access audio EQ menu.

6. SRC

Press to select playing mode.

When you change the source during navigation, the voice prompts will still be heard, although the navigation map cannot be seen. (The selected source audio will be muted until the navigation voice prompt command is completed, after which the source audio will resume.)

7. LCD Display

8. MUTE

Press to silence the receiver. Press again to resume previous volume level.

NOTE: This head unit features Softmute, which will allow the volume to increase gradually when the MUTE function is deactivated.

---

9. IR Remote Control Receiver

10. (left joystick)

DVD/Disc Mode: Press once to play back the previous chapter/track.

TUNER Mode: Press once to auto-search for the previous available radio station.

MENU Mode: Press once to move the cursor to the left.

CONTROLS AND INDICATORS

11. (down joystick)

DVD/Disc Mode: Press once for slow forward/slow reverse.

TUNER Mode: Press to go down one frequency step.

MENU Mode: Press once to move the cursor down.

12. Reset

Press to reset system settings to factory default (except the password and parental lock setting).

13. Pause/Play/Enter

Press to pause or resume playback or to confirm current selection.

14. (right joystick)

DVD/Disc Mode: Press once to enter the next chapter or track.

TUNER Mode: Press once to auto-search the next available radio station.

MENU Mode: Press once to move the cursor to the right.

15. (up joystick)

DVD/Disc Mode: Press once for fast forward/fast reverse.

TUNER Mode: Press to go up one frequency step.

MENU Mode: Press once to move the cursor up.

16. ⏏

Press once for disc insertion/ejection.

Press and hold to reset core mechanism position.

17. TFT Display

18. NAV

When the NAV102 is connected to the head unit, press to display the navigation user interface. The TFT screen must be open for this function to operate.

19. RPT

Press to control repeat playback function.

20. INT

Press to control intro playback function.

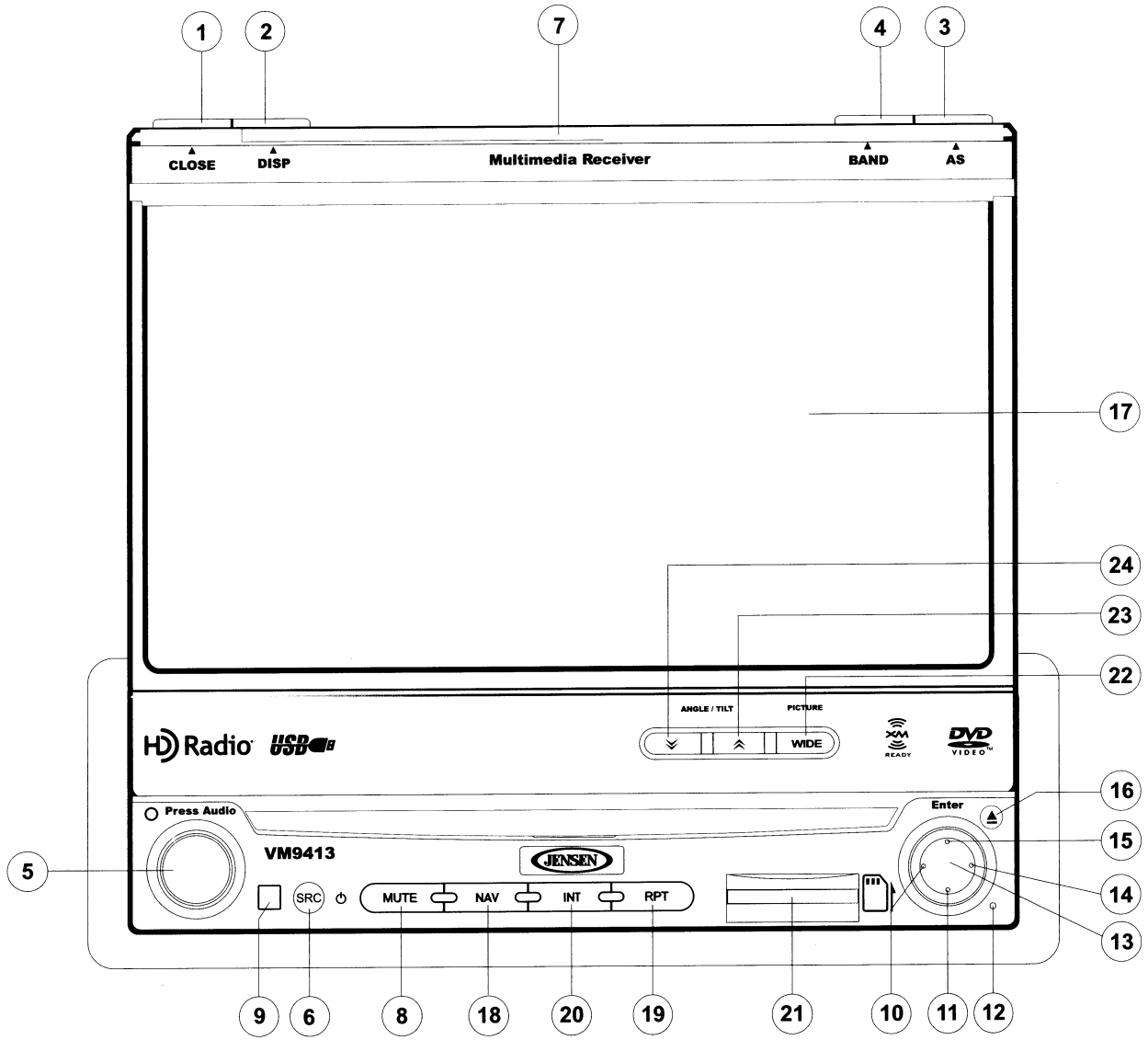
21. SD Card Slot

Insert SD card for playback of audio/video files.

22. WIDE/PICTURE

Press to adjust the display aspect of the picture to one of two settings: CINEMA, NORMAL or Standby (screen off). *NOTE: Only CINEMA and Standby are available for non-video sources.*

Press and hold to adjust Brightness and Contrast.



23/24. ANGLE/TILT

Press to activate the tilt function. Press once to adjust the downward tilt angle of the screen one step at a time or *press and hold* to adjust the angle in a continuous motion up or down.

REMOTE CONTROL

Table 1: Remote Control Functions

Button		Function				
Name	**Ref#**	**DVD**	**VCD**	**TUNER**	**CD/MP3/USB/SD**	**SATELLITE**
MENU	1	Enter the main menu of the disc	Turn on/off PBC when playing VCD	TAG HD Radio stations for transfer to an iPod		Displays diagnostics screen
TITLE	2	Enter the title menu of the disc	Play first ten seconds of each chapter/title		Play first ten seconds of each file	Category list in CG mode
MUTE	3	Toggle on/off audio output	Toggle on/off audio output	Toggle on/off audio output	Toggle on/off audio output	Toggles on/off audio output
POWER/⏻	4	Turn the power on/off	Turn the power on/off	Turn the power on/off	Turn the power on/off	Turns the power on/off
AUDIO	5	Change the audio language for disc playback				
REPT A-B	6	Setup to repeat playback from time frame A to time frame B	Setup to repeat playback from time frame A to time frame B			
REPT	7	Repeat playback of current chapter	Repeat playback of current chapter		Repeat playback of current track	
SRC	8	Select playing mode	Select playing mode	Select playing mode	Select playing mode	Selects playing source
SUBTITLE	9	Language selection for subtitle				
DISP/ CLEAR	10	Display playback information Delete entry or move backwards to correct error in Direct Access mode	Display playback information Delete entry or move backwards to correct error in Direct Access mode			Displays audio mode Delete entry or move backwards to correct error in Direct Access mode
PRESET Λ	11			Navigate the preset station list		Navigates the preset station list
PRESET V	12			Navigate the preset station list		Navigates the preset station list
ANGLE	13	Play back disc in different angle for a scene	Play back Picture CD with different angle of picture displayed			Switches MEM keypad off
>>	14	Fast forward the disc content	Fast forward the disc content	Changes station up one increment	Fast forward the disc content	
VOL -	15	Decrease volume	Decrease volume	Decrease volume	Decrease volume	Decreases volume
VOL +	16	Increase volume	Increase volume	Increase volume	Increase volume	Increases volume
|<<	17	Select the previous chapter for playback	Select the previous chapter for playback	Search an available radio station by decreasing tuning frequency	Select the previous track for playback	Searches an available radio station by decreasing tuning frequency
>/||	18	Pause playback/start playback	Pause playback/start playback		Pause playback/start playback	ENTER, Toggles the on-screen menu between CAT/CH mode

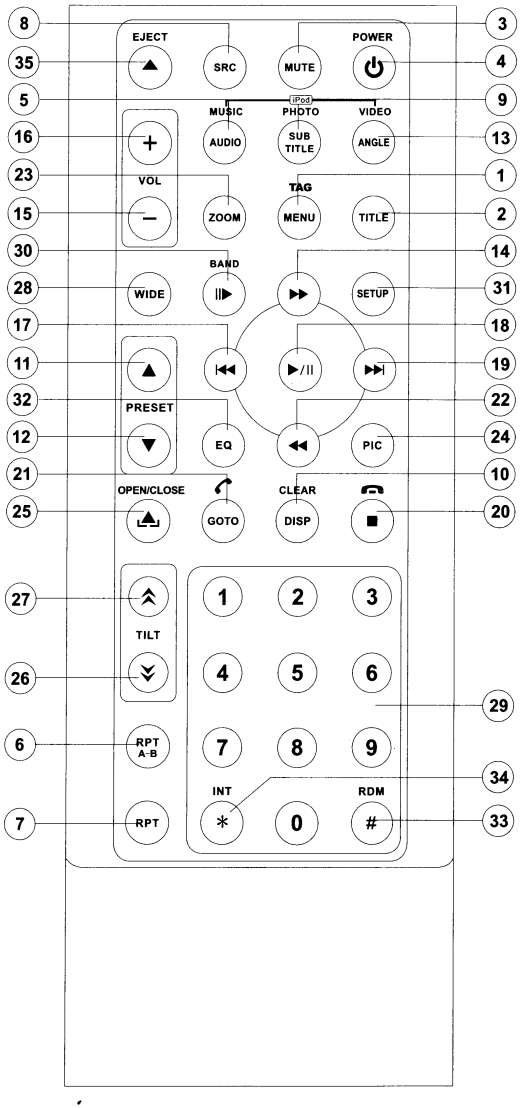


Table 1: Remote Control Functions

Button		Function				
Name	**Ref#**	**DVD**	**VCD**	**TUNER**	**CD/MP3/USB/SD**	**SATELLITE**
>>|	19	Select the next chapter for playback	Select the next chapter for playback	Search an available radio station by increasing tuning frequency	Select the next track for playback	Searches an available radio station by increasing tuning frequency
■/☎	20	Stop playback/end call	Stop playback/end call	End call	Stop playback/end call	
GOTO/☎	21	Go to specific time frame and playback/ dial call	Go to specific time frame and playback/ dial call	Dial call	Dial call	Enters Direct Access mode
<<	22	Slow playback/fast rewind playback	Slow playback/fast rewind playback	Changes station down one increment		
ZOOM	23	Zoom in/out on an image	Zoom in/out on an image			
PIC	24	Display set-up parameters	Display set-up parameters			Displays Brightness/ Contrast Controls
OPEN/ CLOSE	25	Open/close the TFT monitor	Open/close the TFT monitor	Open/close the TFT monitor	Open/close the TFT monitor	Opens/closes the TFT monitor
TILT ⩛	26	Decrease monitor tilt angle	Decrease monitor tilt angle	Decrease monitor tilt angle	Decrease monitor tilt angle	Decreases monitor tilt angle
TILT ⩚	27	Increase monitor tilt angle	Increase monitor tilt angle	Increase monitor tilt angle	Increase monitor tilt angle	Increases monitor tilt angle
WIDE	28	Select display mode: FULL or NORMAL	Selects display mode: FULL or NORMAL			Selects display mode: CINEMA or Standby
1, 2, 3, 4, 5, 6, 7, 8, 9, 0 (Numeric Keypad)	29	Directly access chapter		1-6 selects preset for current band	Directly access track	1-6 selects preset for current band
II▶/BAND	30	Slow motion playback	Slow motion playback	Change AM/FM band	Slow motion playback	Selects SAT1, SAT2 or SAT3 band.
SETUP	31	Display Setup menu	Display Setup menu	Display Setup menu	Display Setup menu	Displays Setup menu
EQ	32	Modify equalizer settings	Modify equalizer settings	Modify equalizer settings	Modify equalizer settings	
RDM	33	Play all chapters in random order			Play all tracks in random order	
INT	34				Play the first ten seconds of each track	Preview scan
EJECT	35	Eject disc	Eject disc	Eject disc	Eject disc	Ejects disc

USING THE TFT MONITOR

Open/Close TFT Monitor

Open TFT Monitor

Press the **OPEN/CLOSE** button (1) on the front panel or press the (⏏) button (25) on the remote control to activate the mechanism that moves the display panel into the viewing position.

Close TFT Monitor

Press the **OPEN/CLOSE** button (1) on the front panel or press the (⏏) button (25) on the remote control to load the display panel back into the compartment

TFT Monitor Auto Open

If "TFT Auto Open" is "on" when the unit is turned on, the monitor automatically moves to the viewing position.

If "TFT Auto Open" is "off" when the unit is turned on, press the **OPEN** button (1) or (⏏) button (25) on the remote control to move the monitor into the viewing position.

If "TFT Auto Open" is set to "Manual", the TFT will not close when the key is turned off.

Monitor Tilt Angle Adjustment

A known characteristic of LCD panels is the quality of the display in relationship to the viewing angle. The monitor angle can be adjusted for optimum viewing using one of the following methods.

Step by Step Angle Adjustment

Press the (⌃) or (⌄) button on the control panel (23, 24) or remote control (26, 27) to adjust the tilt angle of the screen one step at a time.

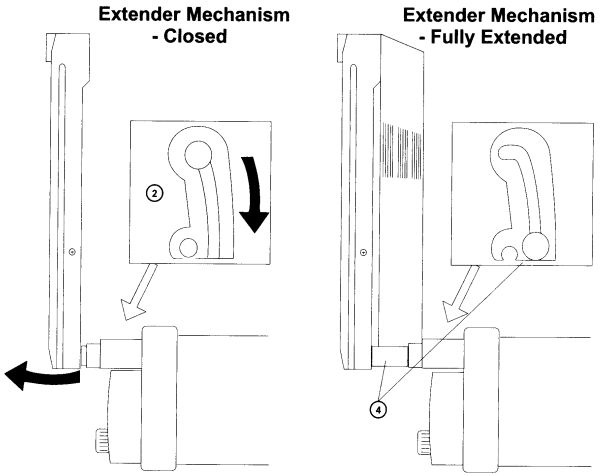
Continuous Angle Adjustment

Press and hold the (⌃) or (⌄) button on the control panel or remote control to adjust the tilt angle in a continuous motion.

Monitor Left/Right Angle Adjustment

To manually adjust the left/right angle of the TFT screen, follow these steps:

1. Make sure the TFT screen in "Out". Press the **OPEN** button (1), if necessary.



2. Locate the extender mechanism behind the screen.
3. Firmly grasp both sides of the screen near the bottom.
4. Gently pull on either the left or right side until the extender mechanism becomes fully extended.

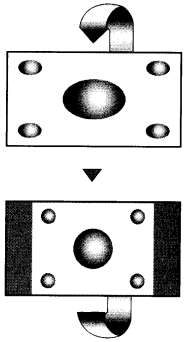
Reverse Driving Use

If the rear-view video camera is connected, the unit is on, and the monitor is stationed inside the main compartment of the unit, the monitor automatically moves into the viewing position and switches to CAMERA mode upon reverse driving. When the reverse driving stops, the monitor returns to the main storage compartment.

If the monitor is in display mode, the monitor automatically switches to CAMERA mode upon reverse driving. When the reverse driving stops, the monitor returns to its original input mode.

Aspect Ratio

Press the **WIDE** button (28) on the remote control or **WIDE** button (22) on the monitor to adjust the aspect ratio as follows (only active with video source):



CINEMA
The entire screen is extended horizontally to the aspect ratio of 16 to 9. The extension ratio is the same at any point.

NORMAL
The conventional display image has a 4 to 3 ratio of horizontal to vertical, leaving a blank area on the right and left sides of the display.

STANDBY
Screen becomes black. Touch screen to resume.

Image Setting

Table 2 shows the video output mode for each playing source.

Table 2: Video Output Modes

Playing Source	Video Output Modes
RADIO	RGB Mode
SAT	RGB Mode
DISC	RGB Mode
BT	RGB Mode
AUX 1	CVBS Mode
AUX 2	CVBS Mode
NAV	RGB Mode
CAMERA	CVBS Mode

*CVBS – Composite Video Baseband Signal

Parameter Adjustment Procedure

1. **Enter Picture Quality Setting Mode:**
   Press the **PIC** button on the remote control or *press and hold* the **WIDE/PICTURE** button (22) on the monitor.
2. **Select Item to Set:**
   Use the up/down joystick buttons to select "BRIGHT" or "CONTRAST".
3. **Set Parameters:**
   Use the left/right joystick buttons to modify the settings.
4. **Exit Picture Quality Setting Mode:**
   Press the **PIC** button on the remote control or the **WIDE/PICTURE** button on the monitor.

Parking Brake Inhibit

When the pink "Parking" wire is connected to the vehicle Parking Brake circuit, the front TFT monitor will display video when the Parking Brake is engaged. (When the pink wire is grounded via the Parking Brake circuit, video will be displayed.)

Monitor Movement Mechanism

If an obstruction occurs in the monitor path, the following protective measurements can be executed to prevent damage to the mechanism or monitor:

Table 3: Monitor Protective Measures

Obstruction	Self Protection	OPEN Button Pressed	Power Reconnected
Monitor loading out horizontally	Unit stops at obstruction point	Monitor fully extended horizontally	Monitor is automatically loaded into unit
Monitor loading in horizontally	Unit stops at obstruction point	Monitor fully extended horizontally	Monitor is automatically loaded into unit
Monitor loading out vertically	Unit stops at obstruction point	Monitor swivels back to the unit	Monitor swivels back to the unit
Monitor loading in vertically	Unit stops at obstruction point	Monitor swivels back to the unit	Monitor swivels back to the unit

After the protective procedure is executed, normal operation is resumed by pressing the **OPEN** button (1) or disconnecting and reconnecting the power.

OPERATING INSTRUCTIONS

Power On / Off

Press the ⏻/**SRC** button (6) on the unit (or the ⏻/**POWER** button (4) on the remote control) to turn the unit on. The buttons on the front of the unit light up and the current mode status appears in the LCD (7). You can also turn on the unit by pressing the **OPEN** button (1) and opening the TFT screen.

Press and hold the ⏻ button to power off the unit. The monitor is drawn back into the main compartment.

Audible Beep Confirmation

An audible beep tone confirms each function selection. The Beep tone can be disabled through the Setup menu.

Volume Adjustment

To increase or decrease the volume level, turn the **AUDIO** control (5) on the front panel or press the **VOL+/ VOL-** buttons (15, 16) on the remote control. When the volume level reaches "0" or "40", a beep sounds, indicating that the adjustment limit has been reached. The volume ranges from "0" to "40". The LCD or TFT screen displays the volume level for 3 seconds.

Programmable Turn-On Volume

This feature allows the user to select a turn-on volume setting regardless of the volume setting prior to turning the unit off. To program a specific turn-on volume level, turn the **AUDIO** control (2) to adjust the volume to the desired turn-on volume. *Push and hold* the **AUDIO** button while the yellow speaker icon and level indication is displayed on the screen. The unit will beep two times to confirm your turn-on volume setting.

Mute

Press the **MUTE** button on the front panel (8) or remote control (3) to mute the volume from the unit. Press the **MUTE** button again to restore the volume. "MUTE" is displayed on the LCD. Adjusting the volume or using any of the audio setup features cancels the mute function.

Line Mute

If the "MUTE" wire is connected, audio output mutes when a telephone call is received by the cell phone.

Steering Wheel Control (SWC)

This head unit is compatible with the PAC (Pacific Accessory Corporation) steering wheel control adapter SWI-PS. A 3.5mm female connector (labeled "SWC Interface") on the back of the head unit allows connectivity to the PAC adapter. ~~Please refer to the instructions included with the PAC adapter~~ for detailed installation information.

SWC Functions

The following controls are available for most vehicles:

1. Vol Down
2. Vol Up
3. Mute
4. Seek Down / Previous Track / ** Preset Down
5. Seek Up / Next Track / ** Preset Up
6. SRC (Source)
7. ** Select
8. ** Select
9. Band

** If additional steering wheel control buttons are available on the vehicle, function 7 / 8 may be assigned the "Select" feature. This feature / function may not be available on some vehicles.

Select Operation

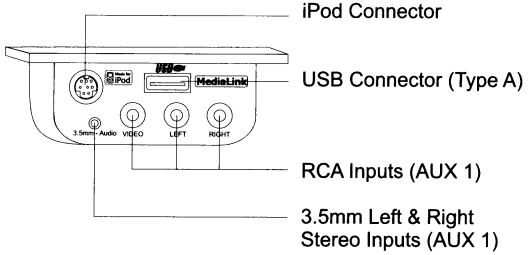
If "Select" (function 7 or 8) is held down and function 4 is pressed momentarily, Preset Up will be selected. If "Select" (function 7 or 8) is held down and function 5 is pressed momentarily, Preset Down will be selected.

Playing Source Selection

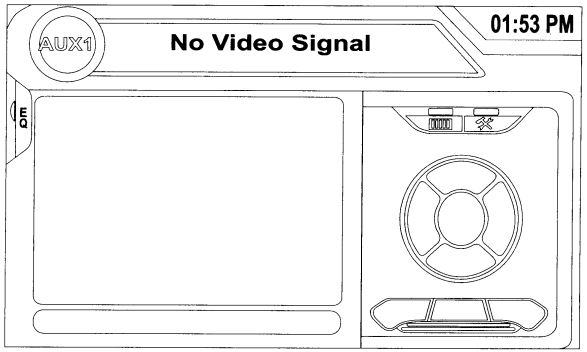
Press the **SRC** button on the front panel (6) or remote control (8) to change between available playing sources in the following order: RADIO, SAT, DISC, NAV, BT, iPod, SD, USB, AUX1, AUX2 and CAMERA. The playing mode is displayed on the TFT and LCD screens.

Auxiliary Devices

External peripheral devices can be connected to this unit via RCA output (AUX IN 2) or the MediaLink[4].



Select "AUX 1" to play an auxiliary device connected via the ~~MediaLink[4] RCA or 3.5mm inputs. For example, you can play~~ music files from a portable music player, video from a video camera and even view photos stored on a digital camera.



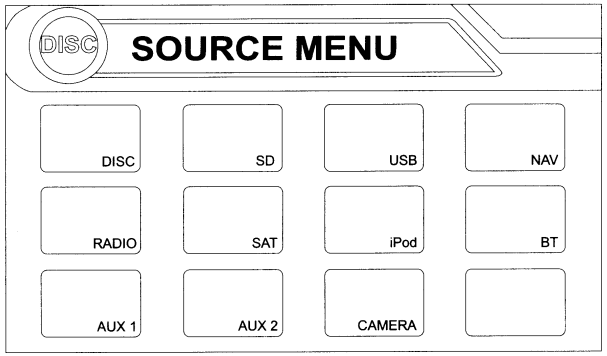
Select "AUX 2" mode to access and control auxiliary devices connected to the "AUX IN 2" inputs on the back of the radio.

Selecting a Source while Navigating

While navigating, other sources may be selected and listened to such as AM-FM Tuner, CD, etc. To select a source, press the ⏻/**SRC** button (6) and then select a source from the Front Source Menu. Navigation voice prompts will be heard automatically, although the navigation map cannot be seen. (The selected source audio will be muted until the navigation voice prompt command is completed, after which the source audio will resume.)

Source Menu

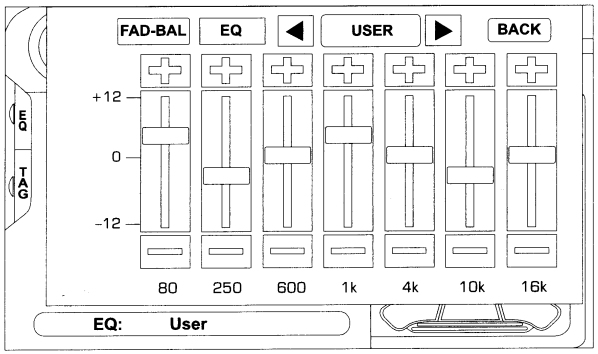
To access the SOURCE MENU, touch the TFT screen in the top left corner of the screen.



7-Band Graphic Equalizer

The VM9413 features a 7-band graphic equalizer that allows you to easily adjust your audio system to meet the acoustical characteristics of your vehicle, which vary depending on the type of vehicle and its measurements. Proper setting of the Fader and Balance boosts the effects of the cabin equalizer.

Press the **AUDIO** button (5) on the front panel or press the the onscreen **EQ** button twice to display the following audio menu.



- Touch the **FAD-BAL** button to access a second screen with the Balance/Fader settings.
- Touch the **EQ** button to return to the Equalizer settings screen.
- Use the arrows on either side of the box where "User" is selected, to choose a preset equalizer level.

To adjust an audio feature:

1. Use the left/right joystick buttons to highlight the audio feature to be adjusted.
2. Press the joystick **ENTER** button on the control panel (13) or remote control (18) to select the highlighted option.
3. Use the joystick to adjust the selected feature to the desired setting.

Table 4: Audio Adjustments

Function	Adjustment Options	
EQ	User	In user mode, you can manually adjust each of the seven frequency bands.
	Acoustic	Use the on-screen arrows to select a predefined equalization curve.
	Urban	
	Rave	
	Latin	
	Dance	
	Hip Hop	
	Rock	
FAD-BAL	Use this screen to adjust the output level for each speaker in your surround system from 0 to -24dB. You can also adjust the master volume from this screen.	

NOTE: The EQ mode will automatically change to "USER" when individual EQ bands are adjusted.

Proper setting of the Fader and Balance complement the effects of the cabin equalizer.

The Audio menu will automatically exit after a few seconds of inactivity. To exit quickly, touch the top left corner of the screen or *press and hold* the **AUDIO** button (5).

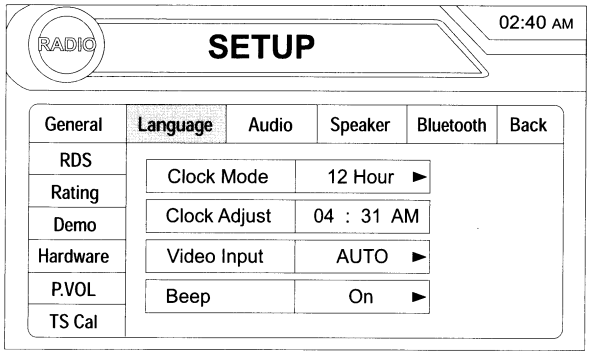
System Reset

To correct a system halt or other illegal operation, use the tip of a pen to press the reset button (12) located on the front bottom-right corner of the unit. After a system reset, the unit restores all factory default settings.

NOTE: If the unit is reset while a DVD is playing, the DVD resumes play once the reset is complete.

SETUP MENU

To access system settings, press the **SETUP** button (31) on the remote control or touch the button on the screen to enter the "SETUP" menu. The "GENERAL" sub-menu appears highlighted in blue.



Accessing Menu Items

Touch the sub-menu name or use the joystick to select a sub-menu (Language, Audio, RDS, etc.).

The features available for adjustment under the highlighted sub-menu option will appear in the center of the screen.

Adjusting a Feature

1. Use the touchscreen or press the Λ or **V** buttons on the joystick to select the feature to be adjusted.
2. Enter the option field for the feature you want to adjust by using the touchscreen or pressing the **ENTER** (joystick) button. A submenu appears in a second row with the selected option highlighted in blue.
3. Select a new value by using the touchscreen or pressing the Λ or **V** buttons on the joystick.
4. Use the touchscreen or press the **ENTER** (joystick) button to confirm setup.

General Sub-menu Features

Setting	Options	Function
Clock Mode	12 Hour	Clock displays 12 hour time using AM and PM.
	24 Hour	Clock displays 24 hour time up to 23:59.
Clock Adjust	(HH:MM)	The clock appears in the top right corner of the screen and on the LCD screen during certain operations. NOTE: The AM/PM indication will change as you continue to adjust the hour past 12.
Video Input (Input circuitry autodetects the video signal from the Aux In source).	Auto	The color signal output is switched automatically based on the current video input signal - NTSC or PAL.
	NTSC	The color signals are output in the standard NTSC format.
	PAL	The color signals are output in the standard PAL format.
Beep	On	When turned on, an audible beep tone confirms each function selection.
	Off	No beep sounds.

Language Sub-menu Features

If a DVD supports more than 1 Subtitle or Audio language, all the languages are available for selection during playback. If the selected language is not supported by the DVD, then the default language is used.

Setting	Options	Function
OSD	English	On Screen Display appears in English.
DVD Audio	English	DVD Audio is heard in English when the option is available.
	Spanish	DVD Audio is heard in Spanish when the option is available.
	French	DVD Audio is heard in French when the option is available.
DVD Subtitle	English	DVD subtitles automatically appear in English when available.
	Spanish	DVD subtitles automatically appear in Spanish when available.
	French	DVD subtitles automatically appear in French when available.
	Off	DVD subtitles do not appear automatically.
Disc Menu	English	DVD menu (if applicable) is displayed in English.
	Spanish	DVD menu (if applicable) is displayed in Spanish.
	French	DVD menu (if applicable) is displayed in French.

Audio Sub-menu Features

Setting	Options	Function
DRC	Off	Employ the Dynamic Range Control for better playback for low volumes.
	On	
Sub. W Filter	50Hz	Selecting a crossover frequency sets a cut-off frequency of the subwoofer's LPF (low-pass filter).
	80Hz	
	100Hz	
	120Hz	
	150Hz	

Speaker Sub-menu Features

- Choose **4 CH** or **4.1 CH** depending on the speaker configuration in your vehicle.
- Use the **Test Tone** feature to verify speaker settings. Make changes using the EQ/FAD-BAL menu, accessed by *pressing and holding* the **AUDIO** button (volume control).
- Subwoofer Phase Adjustment: Touch the **subw** icon to access the subwoofer polarity controls and reverse the subwoofer signal polarity from **0°** to **180°**. Reversing polarity can improve bass response related to speaker configuration.

Bluetooth Sub-menu Features

Setting	Options	Function
Bluetooth	On	Enable Bluetooth function.
	Off	Disable Bluetooth function.
Auto Answer	On	The unit automatically answers all incoming calls.
	Off	Manually answer calls by touching the "call" button.
Connect	Manual	Connect the last active mobile phone by touching the CONNECT icon when disconnected.
	Auto	Automatically connect when your paired phone is in range.
Pairing Code		The default code is "1234". Touch the keypad icon to open the keypad and enter the pairing code or pass key required for Bluetooth connection to your mobile phone. Not all phones/devices require a pairing code. The default code is "0000" for many models.

RDS Sub-menu Features

Setting	Options	Function
Tuner Region	USA *USA* *Canada* *Mexico* *South America*	FM Band: 87.9MHz - 107.9MHz, channel separation @ 200kHz AM Band: 530kHz - 1710kHz, channel separation @ 10kHz
	Europe *UK* *Europe* *Africa*	FM Band: 87.6MHz - 107.9MHz, channel separation @ 100kHz AM Band: 531kHz - 1602kHz, channel separation @ 9kHz

Rating Sub-menu Features

The DVD system has a built-in parental lock feature to prevent unauthorized persons from viewing restricted disc content. By default, the rating system is set at the highest setting (with no restrictions). The parental lock is released only by entering the correct password. Once the password is entered, rating is available for setup.

Setting	Options	Function
Password	_ _ _ _ _ _	Enter the default six-digit password (012345).
Rating	1. Kid Safe	Select the appropriate rating level for the intended audience. You may override higher ratings by using your password.
	2. G	
	3. PG	
	4. PG-13	
	5. PG-R	
	6. R	
	7. NC-17	
	8. Adult	
Load Factory	Reset	Select "Reset" to restore the factory default settings for the *Rating system only.*

To reset the password, access the "RATING" menu and enter the current password. Once the correct password is entered, you can access the "Password" field and enter a new one.

NOTE: Record the password and keep it in a safe place for future reference. The rating for each disc is marked on the disc, disc packing, or documentation. If the rating is not available on the disc, the parental lock feature is unavailable. Some discs restrict only portions of the disc and the appropriate content will play. For details, please refer to the disc description.

Demo Sub-Menu Features

You can stop/run demonstration mode or turn Demo Auto Run on/off by choosing the "Demo" option from the SETUP MENU.

When "Demo Auto Run" is Off, you can select "Demo Mode > Run" to start Demo Mode. Demo Mode scrolls through the various source screens, simulating activity on the display. "Demo Mode" is discreetly displayed in yellow text (below the clock), to indicate the unit is in Demo Mode. To stop Demo Mode, press the upper-left quadrant of the TFT (Source select).

When "Demo Auto Run" is On, the unit will automatically display Demo Mode when powered on.

Hardware Sub-menu Features

If the rear-view video camera is connected, the unit is on, and the TFT monitor is retracted inside the unit, the TFT monitor automatically moves into the viewing position and Camera mode is selected upon shifting into REVERSE gear. When shifting into DRIVE gear, the TFT monitor is retracted back inside unit after ten seconds.

Setting	Options	Function
Camera In	Normal	
	Mirror	Reverse the camera image as if looking through a rear-view mirror.
TFT Set Open	Auto	The TFT panel automatically opens when the unit is turned on.
	Manual	When the ignition is turned OFF, the TFT panel DOES NOT retract if it was previously out
	Off	You must press the OPEN button (1) to open the TFT panel.
TFT Set Back	Off	TFT screen remains fully extended.
	On	TFT screen moves back slightly after opening.
Auto Dimmer	Off	TFT screen brightness remains constant unless manually adjusted.
	On	TFT screen will automatically dim when less light is available.

If the monitor is in display mode, the monitor automatically switches to CAMERA mode upon reverse driving. When the reverse driving stops, the monitor returns to its original input mode.

P.VOL Sub-menu Features

Setting	Options	Function
Source	DISC	Choose a source for which you would like to increase the relative volume (LEVEL). Use the +/- buttons to increase or decrease relative volume for specified source up to 6 decibels.
	RADIO	
	SD	
	SAT	
	AUX 1	
	USB	
	BT	
	AUX 2	
	iPod	
	NAV	

TS Cal (Screen Calibration)

To access the "Screen Calibration" function from the SETUP menu, select the "TS CAL" option.

After entering calibration mode, a crosshair + appears in a corner quadrant of the screen. To begin calibration, *press and hold* the crosshair for one second until it moves to the next quadrant. Continue for each quadrant until the calibration is completed.

To exit without performing calibration, touch the **BACK** button.

Exiting the System Setup Menu

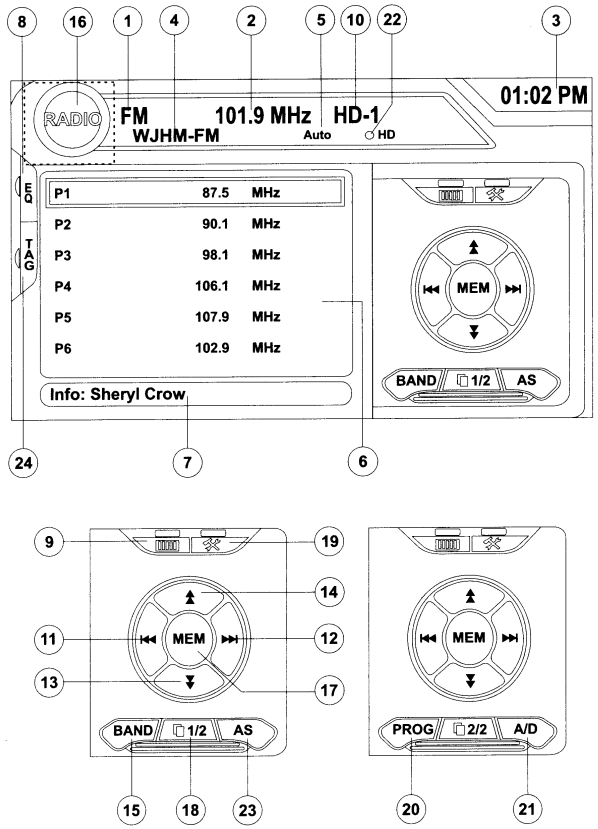
To exit setup mode and resume normal playback, press the **SETUP** button (31) on the remote control or touch the **BACK** button on the screen.

TUNER OPERATION

About HD Radio™ Technology

HD Radio technology allows CD-quality digital broadcasting of your local AM and FM radio stations. HD Radio broadcasts can include multiple channels on the same frequency, which is called multicasting. With multicasting, you can receive up to eight additional multicast channels: HD1~HD8. With your VM9413 radio, you will receive HD Radio digital broadcasts automatically when tuned to a station that offers HD Radio technology.

Tuner TFT Display



1. Current radio band indicator
2. Radio frequency indicator
3. Clock
4. Radio station name (call letters)
5. Tuning mode indicator
6. Preset radio stations: Touch to recall preset stations
7. Program Information: Title, Artist, Type
   NOTE: The amount of information displayed when receiving an HD Radio signal is dependent upon what is being broadcast. Some stations broadcast their call letters (name), the artist's name, song title, and category of music.
8. Touch for quick access to Equalizer level settings
9. Touch to access the direct entry screen
10. HD Radio band indicator
11. **|<<**: Touch to seek backward
12. **>>|**: Touch to seek forward
13. **<<**: Touch to tune backward one step, including multicast channels
14. **>>**: Touch to tune forward one step, including multicast channels
15. **BAND**: Touch to change between AM/FM bands
16. Touch to view the SOURCE MENU and select a new playback source
17. **MEM**: View screen used to enter current channel into preset memory
18. **1/2** or **2/2**: Touch this page button to view a second page of on-screen buttons.
    NOTE: In AM mode, there is only one page of on-screen button options. The PROG button is not visible since Multicast channels are not available for AM stations.
19. : Touch to view the SETUP menu
20. **PROG**: Touch to view the HD Radio Multicast channel display
21. **A/D**: Touch to select Auto, Analog or Digital tuning mode.
22. HD Radio station indicator
23. Auto memory scan
24. **TAG**: Touch to perform iTunes Tagging for current song

Switching to HD Radio Reception

- Touch the top left corner of the screen (the circle) to view the SOURCE MENU. Touch "Radio".
- Press the **SRC** button (6) on the front panel or remote control (8) to switch to the AM/FM or RADIO source.

Selecting the AM/FM Band

Touch the **BAND** button (15) on the screen, or press the **BAND** button on the unit (4) or remote control (20) to select the AM or FM band.

Selecting a Tuning Mode

Touch the **A/D** button (21) to choose from the following modes:

- Auto: Search for both digital and analog stations.
- Analog: Search and broadcast only analog channels.
- Digital: Search and broadcast only digital stations.

Tuning

Not all FM or AM stations offer HD Radio (digital) broadcasting. You can receive both analog and digital stations with the VM9413.

Seek Tuning

To seek the next station:

- Touch the **>>|** button on screen (13).
- Press the **>>|** button (19) on remote control.
- Press the **>** button on the joystick (14).

To seek the previous station:

- Touch the **|<<** button on screen (12).
- Press the **|<<** button (17) on the remote control.
- Press the **<** button on the joystick (10).

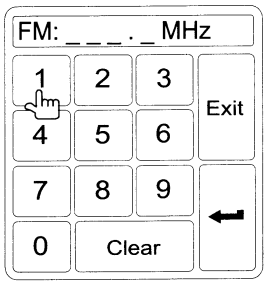
Manual Tuning

To increase or decrease the tuning frequency one step:

- Touch the ▲ or ▼ buttons on screen (14, 15).
- Press the **>>** or **<<** buttons (14, 22) on the remote control.
- Press the Λ or **V** buttons (11, 15) on the joystick.

Direct Tuning

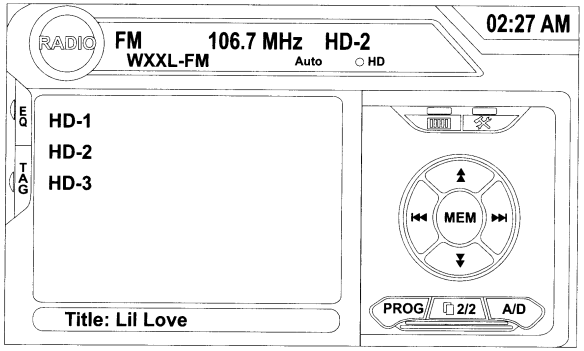
To enter a radio station directly, touch the button or press the **GOTO** button (21) on the remote control to display the direct entry menu.



Enter the desired radio station using the on-screen number pad. Press **Enter** to tune to the selected station. To exit the screen without changing the station, touch **Exit**. To clear your entry and start over, touch **Clear**.

HD Radio Multicast Channels

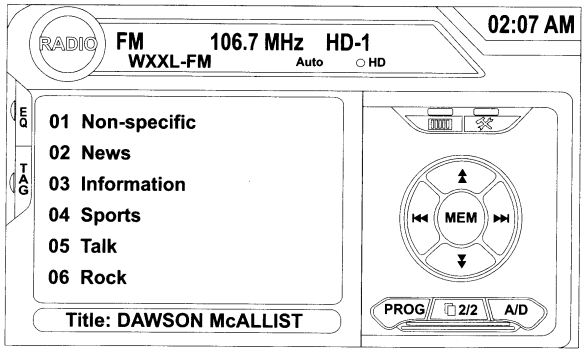
To tune to an HD Radio multicast channel, tune to the main signal and then press the **PROG** button (20) on page 2/2 . If a Multicast channel is being broadcast for the current station, the corresponding multicasting number appears on the left side of the screen. To view the title and artist, if available, select HD-1, HD-2, HD3, etc.



NOTE: The amount of information displayed when receiving an HD Radio signal is dependent upon what is being broadcast. Some stations broadcast their call letters (name), the artist's name, song title, and category of music.

PTY Search

After tuning to an HD Radio channel, the Program Type categories are listed, allowing listeners to find similar programming by genre.



If the PTY menu is not displayed, press the **PROG** button (20) on page 2/2 to toggle between HD Radio multicast channels and PTY categories.

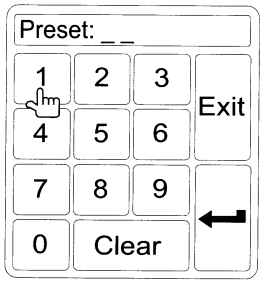
When a PTY category is selected from the touch screen menu, the radio will start scanning for stations broadcasting in the selected category.

Using Preset Stations

You can store up to 18 presets for FM and 6 presets for AM. Stored stations appear on the left side of the screen.

Storing a Station

1. Select a band (if needed), then select a station.
2. Touch the on-screen **MEM** button (17) to open the preset screen.

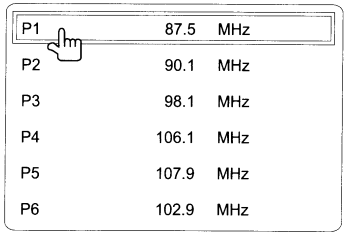


3. Enter the preset number for which you would like to store the current station (or press **EXIT** to cancel and close the menu). The preset number and station appears highlighted on the left side of the screen.

NOTE: Multicast stations can be stored as preset stations.

Recalling a Station

1. Select a band (if needed).
2. Touch an on-screen preset button (6) to select the corresponding stored station.



Auto Store (AS)

To select six strong stations and store them in the current band:

1. Select a band (if needed).
2. Touch the on-screen **AS** button or press the **AS** button (3) on the control panel to activate the Auto Store function.

The new stations replace stations already stored in that band.

iTunes® Tagging

The VM9413 offers iTunes® Tagging, which allows the user to "Tag" songs playing on HD Radio™ stations for purchase later through iTunes. When the onscreen **TAG** button (24) is touched, the unit stores the title and artist song information that can then be transferred to your iPod when connected to the MediaLink[4]. A list titled "Tagged" will appear in iTunes, allowing you the option to purchase your tagged songs.

iPod Compatibility

Models supported, but not limited to, include the following

- iPod nano 4G
- iPod Classic
- iPod Touch
- iPod 5G
- iPod nano 3G

Tagging Music

To begin tagging music, tune to an HD Radio station. The HD icon at the top of the display must be illuminated, indicating a digital station is being received. Touch the onscreen **TAG** button or press the **MENU/TAG** button on the remote control. "Adding Tag..." will appear in the display. The song information is saved to the VM9413 memory until an iPod is connected. When the first tag is successful, the bottom of the screen displays "Tag Stored 1 of 64". You can tag up to 64 songs before the tags must be transferred to an iPod or deleted. When the Tag memory reaches capacity (64 tags) the bottom of the screen displays "Memory Full, Connect iPod".

Table 5: TAG Messages

Tag Message	Reason
Storing Tag...	TAG button is pressed
Tag Stored ## of 64	Successful Storage of Tag
## Tag(s) Sent	Tags have been transferred successfully
Memory full, Connect iPod	Tag storage is full
Insufficient Tag Data	Tag data is not available
Tag transfer failed	Tag transfer failed
iPod full, Tag cannot be stored	iPod memory is full
Tagging not supported	Unsupported iPod is connected

NOTE: Tags saved to your iPod can be managed using the iTunes software, available at www.apple.com/itunes.

Downloading Tags to your iPod

To download tags to your iPod, plug an iPod into the iPod jLink[3] and then into the MediaLink[4] iPod connector. All existing tags are automatically transferred to the iPod and deleted from the head unit's memory. If an iPod is connected when a song is tagged, the Tag will be immediately transferred to the iPod.

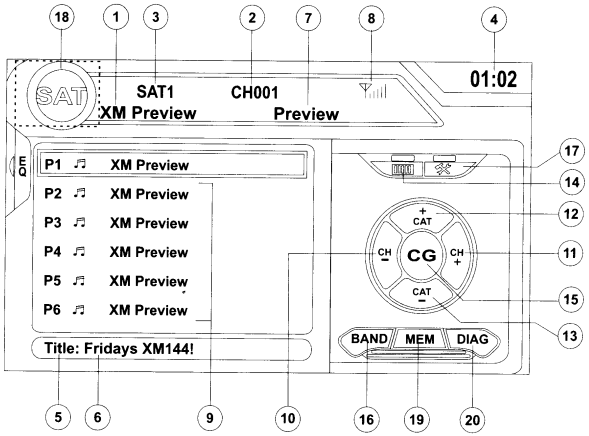
NOTE: When transferring Tags to an iPod, the VM9413 must remain in Radio mode until the "## Tag(s) Sent" message is displayed. To purchase tagged songs, you must sync your iPod to iTunes and then click the "Tagged" list on the left side of the iTunes software screen. Click the "view" button for purchasing information.

SATELLITE RADIO OPERATION

Listeners can subscribe to XM® Radio on the Web by visiting www.xmradio.com, or by calling (800) 967-2346. Customers should have their Radio ID ready (see "Displaying the Identification (ID) Code"). Customers can receive a limited number of free-to-air channels without activation.

Accessing Satellite Radio Mode

Press the **SRC** button (6) on the front panel or remote control (8) to switch to the SAT source.



1. SAT channel name
2. SAT channel number
3. SAT band
4. Time
5. Song title
6. Artist name
7. Song category
8. Signal strength indicator
9. Current preset channels/on-screen preset buttons
10. **CH -**: Select the previous channel
11. **CH +**: Select the next channel
12. **CAT +**: Select next channel in current category only
13. **CAT -**: Select previous channel in current category only
14. Touch to enter channel directly using keypad on screen
15. **CG**: Access Channel/Category Guide mode
16. **BAND**: Change between SAT1, SAT2 and SAT3 bands
17. Touch to view the SETUP menu
18. Touch this area to view the SOURCE MENU and select a new playback source
19. **MEM**: View screen used to enter current channel into preset memory
20. **DIAG**: This feature is reserved for use by service professionals for troubleshooting.

Displaying the Identification (ID) Code

Before you listen to satellite radio, you must subscribe to the service using your radio's identification number. To display the radio ID, press the left/right buttons (16, 17) on the joystick or the **CH -** or **CH +** buttons on the touch screen repeatedly to tune to channel "000". The screen displays the radio ID where the channel name is usually displayed.

Selecting a Station

Use the left/right joystick buttons or the **CH -** or **CH +** buttons on the touch screen to change to another station.

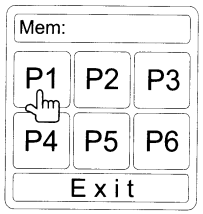
Preset Mode

To enter preset mode, touch the **BAND** button on the screen, or press the **BAND** button on the unit (4) or remote control (20) to change between the following bands: SAT1, SAT2, or SAT3 (indicated in the top left corner of the TFT screen).

Six numbered preset buttons store and recall stations for each band. All six stored stations (P1-P6) for the current band appear on the TFT screen.

Storing a Station

1. Select a band (if needed), then select a station.
2. Touch the on-screen **MEM** button (18) to open the preset screen.



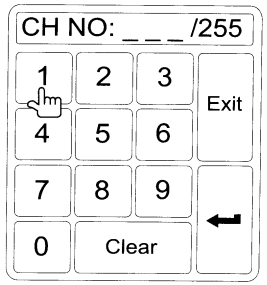
3. Touch the preset number in which you would like to store the current station (or press **EXIT** to cancel and close the menu). The preset number and station appears highlighted.

Recalling a Station

1. Select a band (if needed).
2. Touch an on-screen preset button to select the corresponding stored station.

Direct Tuning

To enter a radio station directly, touch the button or press the **GOTO** button (21) on the remote control to display the direct entry menu.



Enter the desired radio station using the on-screen number pad. Touch the **Enter** button to tune to the selected station. To exit the screen without changing the station, touch **Exit**. To clear your entry and start over, touch **Clear**.

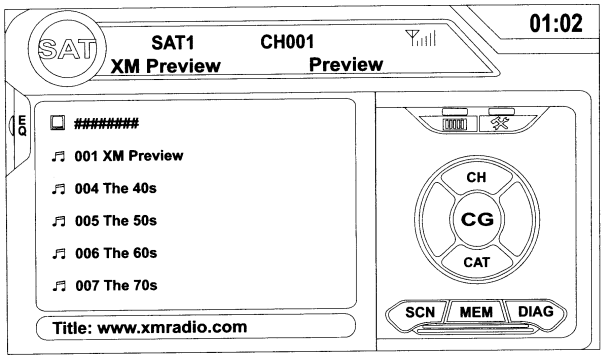
Channel/Category Guide Mode

There are two search modes to help navigate through channels and or categories. To access the Channel/Category Guide mode, press the **ENTER** button (18) on the remote control or the **CG** button on the touch screen.

Channel Guide is the default search mode. To access Category Guide, press the **TITLE** button (2) on the remote control or touch **CAT** on the touch screen. To return to Channel Guide, touch **CH** on the screen or press the **SUBTITLE** button (9) on the remote control.

Channel Guide Mode

When Channel Guide mode is selected, the first six satellite channels are displayed in the boxes in the bottom left of the TFT screen and the on-screen menu changes to facilitate search mode.



- While in Search Mode, to switch between Channel and Category search modes, press the **CH** or **CAT** buttons on the touch screen.
- Use the scroll bar and arrows on the touch screen to view the next/previous page of stations. Each page contains six channels to select from.
- Press the on-screen **SCN** button to preview each of the 6 channels displayed for 10 seconds.
- Press the **CG** button to return to the Preset Mode screen.
- To select a channel while in Channel Guide mode, touch the channel name on the screen. The channel will begin playing and the unit will return to the Preset Mode.

Category Guide Mode

When Category Mode is selected, folder icons appear on the screen next to category choices.

- While in Search Mode, to switch between Channel and Category search modes, press the **CH** or **CAT** buttons on the touch screen.
- Use the scroll bar and arrows on the touch screen to view the next/previous page of categories. Each page contains six categories to select from.
- To select a category, touch the corresponding category name or folder icon. The channels in that category will be displayed on the screen.
- Use the scroll bar and arrows on the touch screen to view the next/previous six stations in the selected category.
- Touch the on-screen **SCN** button to preview each channel in the selected category for 10 seconds.
- Touch the channel name to play that channel.
- Touch the on-screen **CG** button to return to the Preset Mode screen.

DVD/VCD VIDEO OPERATION

NOTE: When properly installed, DVD video cannot be displayed on the main TFT screen unless the parking brake is applied. If you attempt to play a DVD while the vehicle is moving, the TFT screen displays "PARKING" with a blue background. Rear video screens, if applicable, will operate normally.

Opening/Closing the TFT Video Screen

Opening the TFT Screen

To open the TFT video screen, press the **OPEN/CLOSE** button (1). The unit beeps and then opens.

Closing the TFT Screen

Press the **OPEN/CLOSE** button (1) again to close the TFT screen. If the screen is in the "IN" position, it moves out before closing.

Insert/Eject Disc

Upon inserting a DVD disc, DVD mode is entered and disc play begins.

NOTE: If Parental Lock (Rating) is activated and the disc inserted is not authorized, the 6-digit code must be entered and/or the disc must be authorized (see "General Sub-menu Features" on page 11).

You cannot insert a disc if there is already a disc in the unit or if the power is off.

NOTE: DVD-R and DVD-RW will not play unless the recording session is finalized and the DVD is closed.

Ejecting a Disc

Press the ⏏ button (16) on the unit or remote control (35) to eject the disc. The unit automatically reverts to Tuner mode. You may eject a disc with the unit powered off. The unit will remain off after the disc is ejected.

Reset the Loading Mechanism

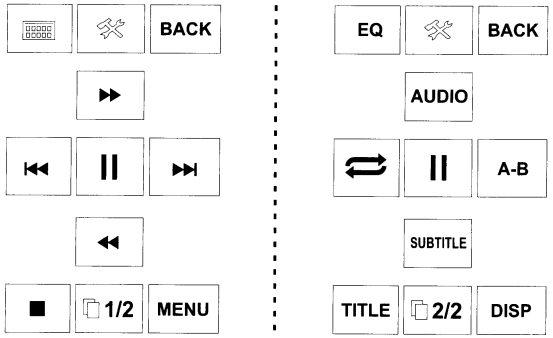
If the disc loads abnormally or an abnormal core mechanism operation occurs, *press and hold* the ⏏ button (16) on the unit or remote control (35) to reset the loading mechanism. Normal operation resumes.

Accessing DVD Mode

To switch to DVD mode when a disc is already inserted, press the **SRC** button (6) on the front panel or remote control (8) until "DISC" appears at the bottom of the screen.

Controlling Playback

To access the on-screen controls, touch the screen. Touch the **1/2** button to view a second page of controls



Stopping Playback

Touch the stop button (■) on the screen or press the ■/ **BAND** button (20) on the remote control to stop DVD play.

Pausing Playback

Touch the pause button (||) on the screen (or press the **>/||** button on the remote control) to suspend disc playback. Press the > button on the screen to resume disc playback.

Fast Forward Playback

Press the /\ button on the joystick or the >> button on the screen to fast forward. Keep pressing and releasing the button to increase the rate from "2X" to "4X", "6X", and "8X".

Press the joystick enter button (18) on the remote control or touch the play button (>) to resume normal playback.

Fast Reverse Playback

Press the \/ joystick button or touch the << button on the screen to play the current title in fast reverse. Keep pressing and releasing the button to increase the rate from "2X" to "4X", "6X", and "8X".

Press the joystick **ENTER** button (13) on the unit or touch the play button (>) to resume normal playback.

Slow Forward/Slow Reverse Playback

Press the **||>/BAND** button on the remote control to slow forward/slow reverse. Keep pressing and releasing the button to increase the slow forward rate from "2X" to "4X" and "8X" and then begin slow reverse.

Repeat Playback

Press the **RPT** button (19) on the control panel, the **RPT** button (7) on the remote control, or the ⇄ button on screen to alter repeat mode according to the following:

- DVD: Repeat Chapter, Repeat Title, Repeat Off
- VCD (PBC Off): Repeat Single, Repeat Off

NOTE: For VCD play, the repeat function is not available if PBC is on.

Sectional Repeat Function (A-B)

Use the A-B function to define a specific area of a disc to repeat.

- Press the **RPT A-B** button (6) on the remote control (or the A-B button on screen) to set the start point (A) of the repeated section.
- Press the **RPT A-B** button again once you reach the desired end point (B) of the repeated section. The selected portion of the DVD will now repeat continuously.
- Press the **RPT A-B** button again to cancel the A-B section setting and stop repeat play.

Random Playback

With a DVD, VCD, or CD playing, press the **RDM** button on the remote control (33) to activate random playback and play all chapters/tracks in random order. "On" appears on the screen.

Press the **>** button on the joystick to play the next random track.

Press the **RDM** button again to turn random play off.

NOTE: When a VCD is playing with PBC turned "On", activating random playback automatically turns PBC off.

Accessing the DVD Menu

Press the **MENU** button (1) on the remote control to recall the main DVD menu. Use the joystick to select a title from the menu or touch the title on screen.

Press the **TITLE** button (2) on the remote control or on screen to select a different title for playback.

Press the **ENTER** (joystick) button to confirm your selection and begin playback. You can also select a title using the touch screen.

Moving Through Chapters

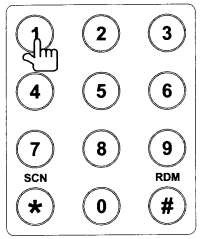
Press the **>** button on the joystick or the **>>|** button on screen to advance to the next chapter on the DVD.

Press the **<** button on the joystick or the **|<<** button on screen to move to the previous chapter.

Direct Chapter / Track Selection

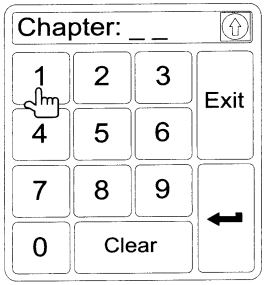
Remote Control Direct Entry

During DVD, VCD and CD playback, you can use the numeric keypad on the remote control (29) to access a track directly.



Touch Screen Direct Entry

To select a title, chapter/track, or specific playback time directly, touch the button on screen control to display the direct entry menu.



Use the button to select Title, Chapter, or Time entry.

- Title: _/#
- Chapter: _ _/##
- Time: _ _:_ _:_ _

Enter the desired title, chapter/track, or time using the on-screen number pad and then press the **Enter** button. To exit the screen without making a selection, touch **Exit**. To clear your entry and start over, touch **Clear**.

Viewing an Alternate Picture Angle (DVD Only)

Some DVDs contain scenes that have been shot simultaneously from different angles. For discs recorded with multiple angles, press the **ANGLE** button (13) on the remote control to toggle available angles of the on-screen image.

Zooming

Press the **PRESET** Λ and V buttons (11, 12) on the remote control to enlarge and pan through the video image using the following options: "ZOOM 1.5", "ZOOM 2", "ZOOM 3", and "OFF".

Multi-Language Discs (DVD Only)

Changing Audio Language

If you are watching a disc recorded in multiple languages, press the **AUDIO** button (5) on the remote control to choose a language.

Changing Subtitle Language

If you are watching a disc recorded in multiple languages with subtitles, press the **SUBTITLE** button (9) on the remote control to choose the language in which you would like the subtitles to appear.

NOTE: During VCD playback, press the AUDIO button (5) on the remote control to choose between Left Channel, Right Channel, and Stereo.

PBC (Play Back Control - VCD Only)

For VCDs with play back functionality, play back control (PBC) provides additional controls for VCD playback.

Press the **MENU** button (1) on the remote control to toggle the PBC function "On"/"Off". Once PBC is on, playback starts from track 1 of the play list.

NOTE: When PBC is activated, fast forward, slow playback, and previous/next track are available. Repeat and direct track selection are not available.

When PBC is activated, selecting random, scan, or search playback automatically deactivates PBC.

Playback Information

During DVD and VCD playback, press the **DISP** button on the control panel (2) or remote control (10) to display playback information on the screen, including the media playing and current playback time.

DVD Playback Information

The following information is displayed at the top of the screen during DVD playback:

- Title: 05/08 – "05/08" indicates the fifth of 8 titles on the DVD is currently playing.
- Chapter: 012/016 – "002/016" indicates that the second of 16 titles on the DVD is currently playing.
- 00:41:28 – "00:41:28" indicates the playback time of the current title.

The following information is displayed at the bottom of the screen:

- Front: Source
- Rear: Source
- CLOCK

VCD Playback Information

The following information is displayed at the top of the screen during VCD playback:

- VCD 2.0 – Format of current disc.
- Title: 06/18 – "06/18" indicates the sixth of 18 tracks on the VCD is currently playing.
- 00:02:18 – "00:02:18" indicates the playback time of the current track.

General Disc Information

Table 6: Disc Properties

Symbol	12cm Disc Properties	Max Play Time
DVD VIDEO DVD VIDEO	Single side single layer (DVD-5) Single side double layer (DVD-9) Double side single layer (DVD-10) Double side double layer (DVD-18)	(MPEG 2 Method) 133 minutes 242 minutes 266 minutes 484 minutes
COMPACT disc DIGITAL VIDEO	Single side single layer (VCD)	(MPEG 1 Method) 74 minutes
COMPACT disc DIGITAL AUDIO TEXT	Single side single layer	74 minutes

Table 7: Disc Symbols

Symbol	Meaning
8	Number of voice languages recorded. The number inside the icon indicates the number languages on the disc (maximum of 8).
32	Number of subtitle languages available on the disc (maximum of 32).
9	Number of angles provided (maximum of 9).
16:9 LB	Aspect ratios available. "LB" stands for Letter Box and "PS" stands for Pan/Scan. In the example on the left, the 16:9 video can be converted to Letter Box video.
ALL	Indicates the region code where the disc can be played. • Region 1: USA, Canada, East Pacific Ocean Islands • Region 2: Japan, Western Europe, Northern Europe, Egypt, South Africa, Middle East • Region 3: Taiwan, Hong Kong, South Korea, Thailand, Indonesia, South-East Asia • Region 4: Australia, New Zealand, Middle and South America, South Pacific Ocean Islands/ Oceania • Region 5: Russia, Mongolia, India, Middle Asia, Eastern Europe, North Korea, North Africa, North-West Asia • Region 6: Mainland China • ALL: All regions

DVD/CD AUDIO OPERATION

Instructions for TFT control and Insert/Eject are the same for DVD and CD operation. Please see the DVD/Disc Video Operation section for information about these topics.

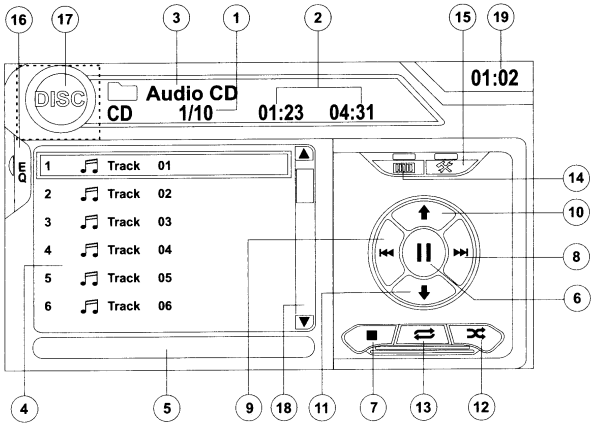
The VM9413 will play music or other audio files from the following disc media/formats:

- CD-DA
- CD-R/RW
- DVD
- DVD+R/RW
- DVD-R/RW

Upon inserting a disc with the TFT screen open, the disc and track title (if available), along with the track number and playing time appear on the screen.

CD Player User Interface

The on-screen indicators and touch key areas for CD playback are outlined below.



1. Current track and total number of tracks on disc
2. Elapsed playing time/length of track
3. Disc title
4. Available track titles
5. ID3 information
6. ||: Touch to pause/play disc playback
7. ■: Touch to stop disc playback
8. **>>|**: Touch to move to next track
9. **|<<**: Touch to move to previous track
10. ⬆/**>>**: Touch to navigate playlist/touch to fast forward
11. ⬇/**<<**: Touch to navigate playlist/touch to fast rewind or reverse
12. Touch to activate/deactivate Random play mode
13. Touch to activate/deactivate Repeat play mode
14. Touch to access the direct entry screen
15. Touch to view the SETUP menu
16. Touch to view Spectrum Analyzer > Equalizer
17. Touch to view the SOURCE MENU and select a new playback source
18. Touch the scroll bar and arrows to view the previous/ next page of songs
19. Current time

Controlling Playback

Stopping Playback

Touch the ■ button on screen or press the ■ button (20) on the remote control to stop disc playback.

To resume playback, touch the ▶ button on screen or press the joystick button.

Pausing Playback

Touch the ▶ button on screen or press the joystick button to suspend or resume disc playback.

Moving Through Tracks

Press the **>>|** button (19) on the remote control or on screen or use the **>** button on the joystick to advance to the next track on the disc.

Press the **|<<** button (17) on the remote control or on screen or use the **<** button on the joystick to move to the previous track.

Repeat Playback

Touch the 🔁 button on screen, press the **RPT** button on the remote control (7) or control panel (19) to alter repeat mode according to the following:

- DVD: Repeat Chapter, Repeat Title, Repeat Off
- CD-DA: Repeat One, Repeat All, Repeat Off
- CD-R/RW: Repeat One, Repeat All, Repeat Off
- DVD-R/RW: Repeat One, Repeat All, Repeat Off

Track Scan Select (CD-DA discs only)

During disc play, press the **SCN** button on the remote control (34) or the **INT** button (20) on the control panel to play the first 10 seconds of each track. When a desired track is reached, press the **SCN** button again to cancel the function and play the selected track.

Random Play Select

While disc play is stopped, press the **RDM** button on the remote control (33) to play the tracks on the disc in a random, shuffled order. Touch the **RDM** button again to cancel Random Play mode.

NOTE: CD-R and CD-RW will not play unless the recording session is finalized.

Fast Forward

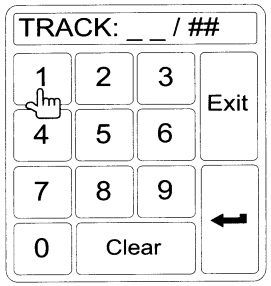
Touch the ⬆ button on screen or press the Λ button on the joystick to fast forward. Keep pressing and releasing the button to increase the rate from "2X" to "4X", "6X", and "8X".

Fast Reverse

Touch the ⬇ button on screen or press the Λ button on the joystick to fast reverse. Keep pressing and releasing the button to increase the rate from "2X" to "4X", "6X", and "8X".

Direct Track Entry

To select a track directly, touch the ⌨ button on screen to display the direct entry menu.



Enter the desired track number using the on-screen number pad, and then press the **Enter** button. To exit the screen without making a selection, touch **Exit**. To clear your entry and start over, touch **Clear**.

PLAYING MP3/WMA FILES

Instructions for TFT control and Insert/Eject are the same for DVD and MP3 operation. Please see the DVD/Disc Video Operation section for information about these topics.

NOTE: When burning MP3 / WMA files onto a DVD disc, use the 2X or 4X burning option, if available. This slower burning speed will help eliminate buffer errors and increase disc reading reliability. Also, use folders when burning large numbers of songs / files to a disc for easy music navigation. Select the "Disc at Once" option and close your disc.

MP3/WMA Media and File Requirements

This player allows you to play back MP3 and WMA files recorded onto CD-R/RWs, DVD+R/RWs, and DVD-R/RWs. For CD-RW discs, please make sure it is formatted using the full method and not the quick method to prevent illegal disc operation.

Up to 1500 songs/files can be burned onto a disc for a MEGA DVD music mix. Do not exceed this number of songs/files or disc readability problems may occur.

MP3 Format Compatibility

The file naming formats listed below are compatible with this unit:

- ISO 9660 – file name: 12 characters, file extension: 3 characters
- ISO 9660 – file name: 31 characters, file extension: 3 characters
- Joliet – 64 characters

If the file or folder name does not conform to ISO 9660 file system standards, it may not be displayed or played back correctly. Use the following settings when compressing audio data for your MP3 disc:

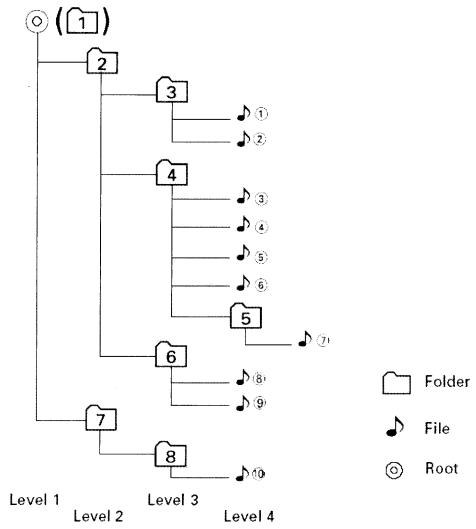
- Transfer Bit Rate: 128kbps
- Sampling Frequency: 48kHz

NOTE: When recording MP3 up to the maximum disc capacity, disable additional writing. For recording on an empty disc up to maximum disc capacity, use the "Disc at once" setting.

MP3 Playing Order

When selected for play, files and folders (Folder Search, File Search or Folder Select) are accessed in the order they were written by the CD writer. As a result, the order in which they are expected to be played may not match the order in which they are actually played. You may be able to set the order in which MP3/WMA files are to be played by writing them onto a medium such as a CD-R with their file names beginning with play sequence numbers such as "01" to "99".

For example, a medium with the following folder/file hierarchy is subject to Folder Search, File Search or Folder Select, as shown below.

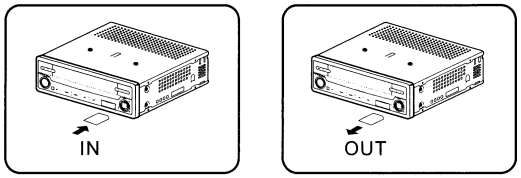


The VM9413 player will only recognize three folder levels and does not display folders containing only other folders. In the example above, the unit will display folders 3, 4, 6, and 8, but not 2 and 7 since they do not contain any tracks directly. Folder 5 is not recognized at all since it is at the fourth level.

Loading an SD Card

NOTE: The VM9413 will support up to 8GB SD Cards. SD Cards larger than this (SDHC Cards) will not be recognized.

Insert the SD card into the SD slot (21) on the front of the radio. The unit will read the media files on the card automatically.

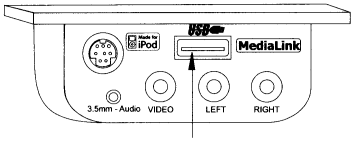


To remove the card, first press the **SRC** button (6) to switch to another mode and stop SD playback. Pull the SD card out to remove it.

Loading a USB Device

NOTE: The USB port will recognize most USB flash memory devices, as well as portable hard drives with audio / video files. The hard drive must be formatted to FAT32. The head unit operating system does not support NTFS file structure.

1. Locate the USB jack on the MediaLink[4].



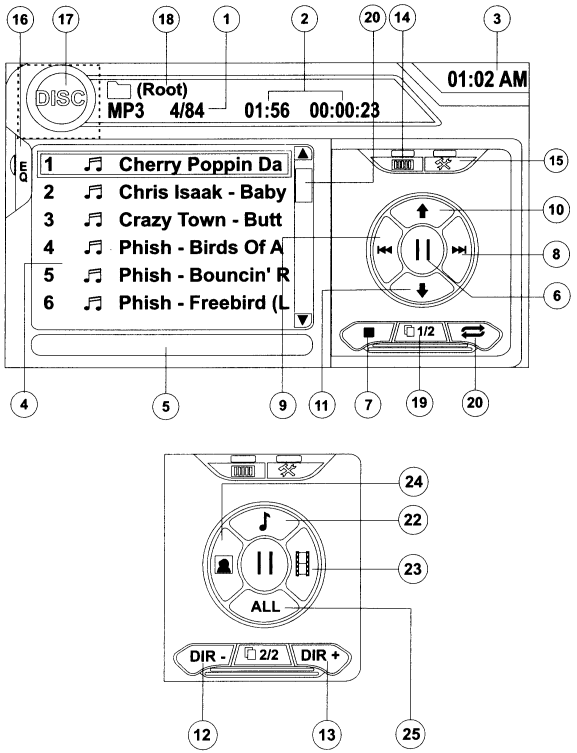
Type A USB Connector

2. Insert the USB device into the USB connector. The unit will read the audio/video media files on the USB device automatically.

To remove the USB device, press the **SRC** button (6) to switch to another mode and then remove the USB device from the USB connector.

MP3 User Interface

The on-screen indicators and touch key areas for MP3 playback are outlined below.



1. Current track and total number of tracks on root of disc
2. Elapsed playing time, track length
3. Current time
4. Track titles
5. ID3 information
6. || : Touch to play/pause disc playback
7. ■: Touch to stop disc playback
8. **>>|**: Touch to move to next track
9. **|<<**: Touch to move to previous track
10. **⬆/>>**: Touch to navigate playlist/touch to fast forward
11. **⬇/<<**: Touch to navigate playlist/touch to fast rewind or reverse
12. **DIR -**: Touch to view the previous folder
13. **DIR +**: Touch to view the next folder
14. Touch to access the direct entry screen
15. Touch to view the SETUP menu
16. Touch to view Spectrum Analyzer > Equalizer
17. Touch to view the SOURCE MENU and select a new playback source
18. Folder name
19. **1/2** or **2/2**: Touch this page button to view a second page of on-screen buttons
20. Touch the scroll bar and arrows to view the previous/ next page of songs
21. Touch to activate/deactivate Repeat play mode
22. Touch to access the Music menu
23. Touch to access the Video menu
24. Touch to access the Photo menu
25. Browse all files

Controlling MP3/WMA Disc Playback

Playing MP3/WMA Files

After inserting a MP3/WMA disc, files will play in the sequence of the "Root' directory.

NOTE: When burning MP3 / WMA files onto a DVD disc, use the 2X or 4X burning option, if available. This slower burning speed will help eliminate buffer errors and increase disc reading reliability. Also, use folders when burning large numbers of songs / files to a disc for easy music navigation. Select the "Disc at Once" option and close your disc.

Stopping Playback

Touch the ■ button on screen or press the **■/BAND** button (20) on the remote control to stop disc playback.

To resume playback, touch the ▶ button on screen, press the joystick button (13) on the front panel, or press the **>/||** button (18) on the remote control.

Pausing Playback

Touch the ▶ button on screen, press the joystick button (13) on the front panel, or press the **▶/||** button (18) on the remote control to suspend or resume disc playback.

Moving Through Tracks

Press the **>>|** button (19) on the remote control or on screen or use the **>** button on the joystick (14) to advance to the next track on the disc.

Press the **|<<** button (17) on the remote control or on screen or use the **<** button on the joystick (10) to move to the previous track.

Repeat Playback

Touch the ⇄ button on screen, press the **RPT** button (19) ~~on the control panel or press the **RPT** button (7) on the~~ remote control to alter repeat mode according to the following: Repeat Single, Folder Repeat, Repeat Off.

Random Play Select

Press the **RDM** button (33) on the remote control to play the files on the disc in a random, shuffled order. Press **RDM** again to cancel Random Play mode.

NOTE: CD-R and CD-RW will not play unless the recording session is finalized.

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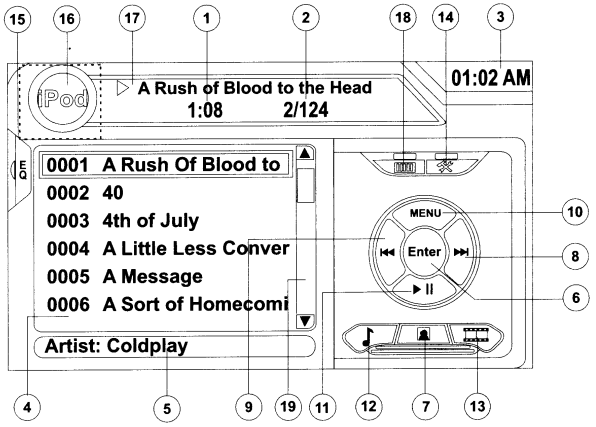
iPod OPERATION

iPod User Interface

The on-screen indicators and touch key areas for iPod playback are outlined below.



1. Elapsed playing time
2. Current track and total number of files
3. Current time
4. Media titles/menu information
5. ID3 information
6. Enter
7. Touch to access photos
8. **>>|**: Touch to move to next track
9. **|<<**: Touch to move to previous track
10. Touch to access the iPod menu
11. **>||** : Touch to play/pause disc playback
12. Touch to access music files
13. Touch to access video files
14. Touch to access the SETUP screen
15. Touch to view Spectrum Analyzer > Equalizer
16. Touch to view the SOURCE MENU and select a new playback source
17. Song title
18. Touch to view the direct entry menu
19. Touch the scroll bar and arrows to view the previous/ next page of songs

Controlling Your iPod

The unit will automatically switch to iPod mode when an iPod is plugged into the MediaLink[4]. To return to the iPod menu from any other source menu, press the **SRC** button (6) on the front panel or remote control (8) until the iPod menu appears on the screen.

NOTE: Be sure your iPod has the latest Apple firmware installed to avoid connectivity issues.

The following touch screen icons and remote control buttons are used to access the iPod menus:

Menu	Touch Screen	Remote Control
Music	♪	AUDIO
Photos		SUB-TITLE
Videos		ANGLE

Use the touchscreen, the joystick, or the directional keys on the remote control to navigate the iPod menus.

iPod Music Playback

To access iPod music files, touch the ♪ button on screen or press the **AUDIO** button (5) on the remote control.

- Touch the **> ||** button on screen to play/pause.
- Touch **>>|** on screen, press the **>>|** button (19) on the remote control, or press the **>** button on the joystick (17) to move to the next item on the menu.
- Touch **|<<** on screen, press the **|<<** button (17) on the remote control, or press the **<** button on the joystick (16) to move to the previous item on the menu.
- Use the touch screen or press the **>/||** button (18) on the remote control or the joystick **ENTER** button (20) on the control panel to select the highlighted menu option.
- Press the **>>** button (14) on the remote control or the Λ button (18) on the joystick, or touch the **MENU** button on screen to return to the previous menu.

Fast Forward/Fast Reverse

Press and hold the **|<<** or **>>|** buttons on screen or on the remote control (17, 19) for 1 second and continue to hold for fast forward or fast reverse. Release to resume normal playback.

Photo Playback

While iPod photos can be viewed on the VM9413 screen, you must use the iPod to control photo playback options.

Touch the icon on screen or press the **SUB-TITLE** button (9) on the remote control to access the iPod PHOTO mode. The VM9413 will release control back to the iPod so you can select video media to be displayed on the TFT monitor. To exit PHOTO mode, touch the screen.

Video Playback

While iPod video can be viewed on the VM9413 screen, you must use the iPod to control video playback options.

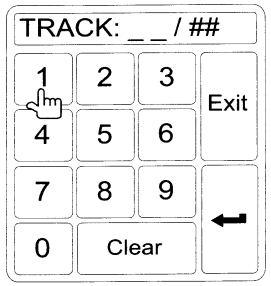
Touch the button on screen or press the **ANGLE** button (13) on the remote control to access iPod VIDEO mode. The VM9413 will release control back to the iPod so you can select video media to be displayed on the TFT monitor. To exit VIDEO mode, touch the screen, press the **>>** button (14) on the remote control, or press the **MENU** button on the iPod.

NOTE: To transmit the video from your iPod to the VM9413 screen, you must set the following options through the iPod video settings menu: TV Out = On, TV Signal = NTSC, and Widescreen = On.

NOTE: After disconnecting your iPod, the VM9413 will always return to the last mode accessed when the iPod is plugged back into the unit.

Direct Track/File Entry

To select a track/file directly, touch the button on screen control to display the direct entry menu.



Enter the desired track/file using the on-screen number pad. Press the **Enter** button to tune to the selected station. To exit the screen without changing the station, touch **Exit**. To clear your entry and start over, touch **Clear**.

You can also use the numeric keypad (29) on the remote control to access files directly.

BLUETOOTH OPERATION

NOTE: Bluetooth operation requires optional BTM10 accessory.

About Bluetooth

Bluetooth is a short-range wireless radio connectivity technology that is developed as a cable replacement for mobile phones, handheld PCs and other devices. Bluetooth operates in 2.4 GHz frequency range and transmits voice and data at speeds up to 1 megabit per second. Bluetooth was launched by a special interest group (SIG) comprised of Ericsson Inc., Intel Corp., Nokia Corp., Toshiba and IBM in 1998, and it is currently developed by nearly 2,000 companies worldwide. The Bluetooth word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by Audiovox Corporation is under license. Other trademarks and trade names are those of their respective owners.

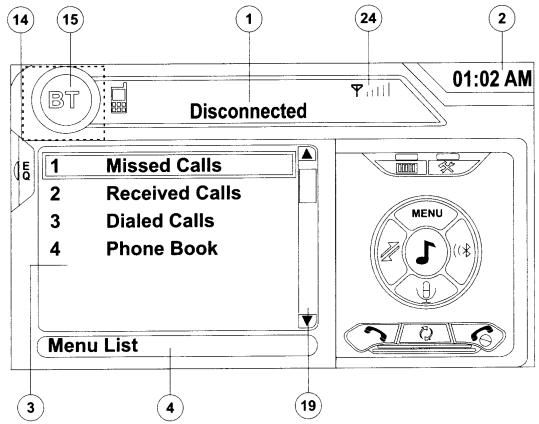
NOTE: The line-of-sight distance between this unit and your cellular phone must be 8 meters or less for sending and receiving voice and data via Bluetooth wireless technology. However, the transmission distance may become shorter than the estimated distance, depending on the environment in use.

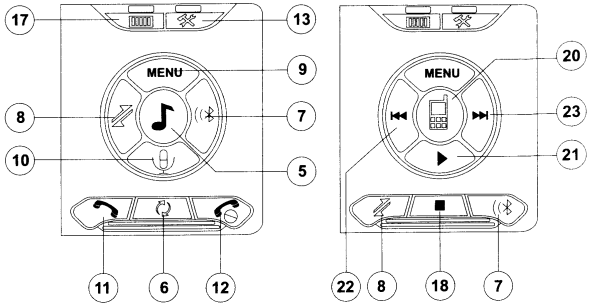
Before attempting to use the Bluetooth functions on the VM9413, please make sure your mobile phone supports Bluetooth functions (Headset or Handsfree profiles or both). Adhere to the following guidelines for successful operation.

- Before using Bluetooth functions, you must pair your mobile phone to the VM9413 head unit (see "Pairing the Bluetooth System with Your Mobile Phone and Head Unit"). To ensure the best reception for pairing and reconnection, please make sure the phone battery is fully charged before you begin.
- Try to perform pairing within a few minutes of the phone being turned on.
- Once the unit has been paired with the phone, the unit's model number, "VM9413", will be displayed on the mobile phone.
- To achieve the best performance, always keep the mobile phone within 3 meters of the head unit.
- Always keep a clear path between the mobile phone and the head unit. Never place a metal object or any other obstacle between the mobile phone and the head unit.
- Some mobile phones (like Sony Ericsson) may have a "Power Saving Mode" option. PLEASE DO NOT use the power saving mode with the VM9413.
- Before accepting or making a call, make sure your mobile phone's "Bluetooth function" is turned on.
- To ensure the best conversation quality/performance, stay within one meter of the head unit when talking.
- To "disconnect" the mobile phone from the head unit, turn the Bluetooth connectivity off on the mobile phone.
- **Phone Book direct searching through the head unit is only available if the mobile phone supports Phone Book Download.** If the feature is not supported, the head unit will display "Phone book not provided by this phone" when an attempt is made to download a phone book.

Bluetooth User Interface

The on-screen indicators and touch key areas for Bluetooth operation are outlined below.





PHONE INTERFACE **MUSIC INTERFACE**

1. Current connection status/device connected
2. Current time
3. Bluetooth menu
4. Current operation status
5. Toggle Music/Phone menu
6. Transfer active call back to handset
7. Pair your Bluetooth phone (first time use)
8. Connect/disconnect Bluetooth device (phone, PDA, personal music player, etc.) with hand-free function
9. Exit call listing display
10. Mute/unmute microphone (located on left side of radio) during active call
11. Answer incoming call/make call
12. Reject incoming call/end call/quit pairing process/quit reading phone book or call listing
13. Touch to view the SETUP menu
14. Touch to view Spectrum Analyzer > Equalizer
15. Touch to view the SOURCE MENU and select a new playback source
16. Indicates connection/current operation (--> indicates incoming call, <-- indicates dialing alert)
17. Touch to access the direct entry screen
18. ■: Touch to stop playback
19. Touch the scroll bar and arrows to view the previous/ next page of songs
20. Toggle Music/Phone menu/mode
21. Play/Pause selected file
22. **|<<**: Touch to move to the previous file
23. **>>|**: Touch to move to the next file
24. Signal strength indicator

Hands Free Profile (HFP)

To use a phone wirelessly with this unit, it is necessary to first establish a connection using Bluetooth wireless technology. Connection is normally established using HFP (Hands Free Profile), which gives you full control of functions available on the telephone source. However, depending on your phone, the connection may be made using HSP (Head Set Profile), making some functions unavailable. This is a limitation of your phone, not the VM9413.

Since there are a number of Bluetooth mobile phone implementations available on the market, operations with your Bluetooth mobile phone using this unit vary greatly.

Please refer to the instruction manual that came with your Bluetooth mobile phone along with this manual while operating your phone with this unit.

Pairing the Bluetooth System with Your Mobile Phone and Head Unit

1. Press the button (8) to initiate the pairing process. Keep the mobile phone within 2 meters of the head unit when pairing. (To terminate the pairing process, press the button again.)
2. Select the Bluetooth setup option on the mobile phone to be paired (please refer to the phone's instruction manual to learn how to enter Bluetooth setup, turn Bluetooth on/off, and perform pairing).

NOTE: Some phones require a "pass key" or pairing code to connect. If your phone requires a pass key or pairing code, you will need to enter this number in the Pairing Code field under the Bluetooth SETUP menu. The default pairing code for many phones is "0000". The default code for the VM9413 is "1234". See "Bluetooth Sub-menu Features" on page 12 for instructions on entering the pairing code.

3. Select "VM9413" from the pairing list on the mobile phone.
   - If pairing is successful, the TFT will display the paired mobile phone model number or name (as specified in your phone's Bluetooth Setup menu).
   - If pairing fails, "Phone Pairing Fail" is displayed at the bottom of the screen.

Reconnecting

Once the Bluetooth device has been paired, you can touch the connect button to reconnect.

NOTE: You can only connect to a phone using the buttons on the on-screen Phone interface.

Each time the button is pressed, the head unit will automatically reconnect with the mobile phone once (only if the mobile phone was previously paired with the head unit).

Managing Incoming Calls

When connected to a Bluetooth phone, the unit will mute audio output, pause CD play, and change to the Bluetooth screen when a call is received. An incoming phone number will appear at the top of the screen. If the screen is closed, the number will scroll across the LCD. If the incoming call has no caller ID, the TFT or LCD will display "Restricted Number".

Answering an Incoming Call

To answer the call, touch the button.

For best reception, speak loudly and clearly.

To end the conversation, press the button. The screen will display the call duration for 3 seconds, and then return to the previous mode.

Rejecting an Incoming Call

Touch the button to reject an incoming call. The call will revert to your phone and can be answered directly or left for voice mail.

Volume Control

To increase or decrease the volume level, turn the **AUDIO** control (5) on the front panel or press the **VOL+/ VOL-** buttons (15, 16) on the remote control.

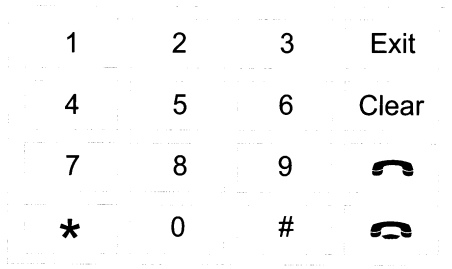
Microphone Mute

To mute the microphone, touch the button. Touch again to resume microphone functionality.

Making an Outgoing Call

NOTE: Press the button from the main Bluetooth screen to automatically dial the last call received.

1. Touch the button to open the direct dial screen.



2. Use the 0-9, *, and # buttons to input the phone number.
   - Touch the **CLEAR** button to clear the last digit.
   - Touch the button to clear the entire number and start over.
3. After entering the phone number, press the button to dial the call. The direct dial screen will close once your call is connected.

To end the conversation, press the button.

Call Transfer

While talking, to transfer audio from the head unit back to the mobile phone, touch the button (7). The TFT will display "Transfer". You can only transfer a call after it has been answered.

Menu List

The menu list appears on the left side of the screen and can be accessed from other modes by touching the **MENU** button on the right side of the screen.

NOTE: Not all phones allow access to missed, received or dialed calls and some will not allow uploading of your phone's address book.

Missed Calls

The Missed Calls list retrieves the list of Missed numbers from your phone. The last missed number is the first number on the list. Touch the Missed Calls menu option to view the list. To make a call from the Missed Calls list, touch the number and then touch the button. The TFT will display "Cannot get missed record" when the feature is not available.

Dialed Calls

The Dialed Calls list retrieves the list of dialed numbers from your phone. The last dialed number is the first number on the list. Touch the Dialed Calls menu option to view the list. To make a call from the Dialed Calls list, touch the number and then touch the button. The TFT will display "Cannot get dialed record" when the feature is not available.

Received Calls

Use the Received Calls list to view the last 10 received numbers stored on your phone. To access the Received list, touch the Received Calls menu option. The last received number is the first number on the list. To make a call from the Received Calls list, touch the number and then touch the button. The TFT will display "Cannot get received record" when the feature is not available.

Phone Book

1. Touch the Phone Book menu option to display the phone book stored on your mobile phone, if compatible. The screen will display "Ready..." while the phone book is downloading.
2. Once the download is completed, you can use the arrow buttons and scroll bar on the right side of the window to navigate the list. Since the unit downloads one page of entries at a time, there may be a slight delay while the next page of numbers is downloaded.
3. Touch to highlight the number you want to dial and then touch the button.

NOTE: Some mobile phones do not support Phone Book upload through Bluetooth. This is a limitation of the phone, not the VM9413.

Bluetooth Setup

Auto Answer

You can choose to have the VM9413 automatically answer incoming calls to your paired Bluetooth phone. To turn "Auto answer" on:

1. Touch the button to view the SETUP menu.
2. Select the "Bluetooth" sub-menu.
3. Touch the area to the right of "Auto answer" to select "On".

Auto Connect

The auto Connect option will allow the VM9413 to automatically connect to your previously paired Bluetooth when it is in range. When the Connect option is set to "Manual", you must press the button to re-establish a connection with your phone. To turn auto "Connect" on:

1. Touch the button to view the SETUP menu.
2. Select the "Bluetooth" sub-menu.
3. Touch the area to the right of "Connect" to select "Auto".

Advanced Audio Distribution Profile (A2DP)

The VM9413 allows you to play back audio files from your phone, PDA or personal music player using a Bluetooth connection.

Before using an audio player, it may be necessary to enter a PIN code into the unit. Enter the PIN code referring to "Bluetooth Sub-menu Features" on page 12.

NOTE: Please quit A2DP mode before attempting to make a phone call, as unexpected results may occur depending on your mobile phone model.

The VM9413 can control a Bluetooth audio player via Advanced Audio Distribution Profile (A2DP) or Audio/Video Remote Control Profile (AVRCP). Bluetooth audio players (or Bluetooth adapters) compatible with these profiles can be connected to this unit. Functionality varies depending on the profile used:

- A2DP: Stream audio from your Bluetooth compatible audio player and listen to the music through your VM9413. Play/pause, song selection, etc. are not possible.
- AVRCP: Play back, pause, select songs, etc. while streaming audio from your Bluetooth compatible audio player to the VM9413.

NOTE: Song information (e.g. elapsed playing time, song title, song index, etc.) cannot be displayed on this unit.

Since there are a number of Bluetooth audio players available on the market, operations with your Bluetooth audio player using this unit vary greatly.

Please refer to the instruction manual that came with your Bluetooth audio player as well as this manual while operating your player with the VM9413.

Refer to the MUSIC INTERFACE instructions under "Bluetooth User Interface" on page 28 for information about on-screen indicators and touch screen functions that *may* be available during audio playback.

TROUBLESHOOTING

Table 8: Troubleshooting

Problem	Cause	Corrective Action
GENERAL		
Unit will not power on	Radio Fuse blown	Install new fuse with correct rating
	Car battery fuse blown	Install new fuse with correct rating
	Illegal operation	Press the RESET button located in the bottom right corner of the front panel
Remote control does not function	Battery depleted	Replace battery with new one
	Battery installed incorrectly	Remove battery and install correctly
No/low audio output	Improper audio output connection	Check wiring and correct
	Volume set too low	Increase volume level
	Improper "MUTE" connection	Review wiring diagram and check "MUTE" connection
	Speakers damaged	Replace speakers
	Heavily biased volume balance	Adjust the channel balance to the center position
	Speaker wiring is in contact with metal part of car	Insulate all speaker wiring connections
Poor sound quality or distortion	Pirated disc is in use	Use original copy
	Speaker power rating not compatible with unit	Connect proper speakers
	Speaker is shorted	Check speaker contact
Tel-Mute malfunction	"MUTE" wire is grounded	Check that the "MUTE" connection is not grounded and that it's properly insulated
Unit resets itself when engine is off	Incorrect connection between ACC and positive battery wire	Check wiring and correct
TFT MONITOR		
Monitor does not open automatically	TFT Auto Open is turned off	Turn TFT Auto Open on
No image	Incorrect connection to parking brake wire	Check wiring and correct
	PRK SW is activated and parking brake is not engaged	Stop vehicle in safe place and apply parking brake
Flashing image or interference appears on screen	DVD is not compatible with current video settings	Change setup to accommodate disc
	Improper video signal connections	Check wiring and correct
Prolonged image or improper height/width ratio display	Improper aspect ratio setup	Use correct aspect ratio setting
Monitor stops at incorrect position	Moving path is blocked	Press OPEN key to restart monitor movement
TUNER		
Weak station searching	Auto antenna is not fully extended	Connect the auto antenna control cable properly
	Auto antenna not properly connected	Connect the auto antenna control cable properly
	HD Radio broadcast is too far away	Switch to Analog tuning mode
CD/DVD		
Cannot insert disc	Disc already inside unit	Eject current disc and insert new one

Table 8: Troubleshooting

Problem	Cause	Corrective Action
Disc does not play back	Disc is warped or scratched	Use disc in good condition
	Disc is dirty or wet	Clean disc with soft cloth
	Laser pickup is dirty	Clean laser pickup with cleaning disc
	Incompatible disc is used	Use compatible disc
	Disc rating exceeds Parental Lock rating limit	Change Parental Lock settings to lower restriction
	Disc region code is not compatible with unit	Use disc with proper region code
	Disc is inserted upside down	Insert disc with label side up
Image blurred, distorted, or dark	Disc is illegally copied	Use original disc
PBC cannot be used during VCD playback	PBC is not available on the disc	
No repeat or searching while playing VCD	PBC is on	Turn PBC off
MP3		
Interruption occurred during playback	Disc is dirty or scratched	Clean disc or replace
	File is damaged/bad recording	Recreate disc with good files
Incorrect playback message displayed	Message is longer than LCD can display	
SAT RADIO		
No Sound	Incorrect cable connections	Check RCA cables
Satellite source not available	Incorrect cable connections	Check Satellite Data cable
IPOD		
iPod source not available	Incorrect cable connections	Check jLink[3] and MediaLink[4] cables
Cannot see video and photo media on TFT screen	Wrong iPod Video Settings	Change iPod video settings to TV Out = On

Error Messages

Table 9: Error Messages

Message Displayed	Cause	Corrective Action
Loading	Disc is being read	
No Disc	Disc is dirty	Clean disc with soft cloth
	Disc is upside down	Insert disc with label side up
	Disc not present in loading compartment	Insert disc
Bad Disc	Disc is dirty	Clean disc with soft cloth
	Disc is upside down	Insert disc with label side up
Unknown disc	Disc format is not compatible with this unit	
Region Error	DVD is not compatible with region code of unit	
Error	Illegal mechanism operation	Press EJECT key for 5 seconds to reset loading mechanism

Care and Maintenance

1. Use only a clean silicone cloth and neutral detergent to clean the front panel or monitor. A rough cloth and non-neutral detergent (such as alcohol) may result in scratching or discoloration.
2. Do not get water or cleaning fluids on the unit.
3. If the temperature inside the player gets too hot, a protective circuit automatically stops play of the disc. If this occurs, allow the unit to cool before operating the player again.
4. Never insert anything other than a 5" (12 cm) disc into the player as the mechanism can be damaged by foreign objects.
5. Do not attempt to use a 3" (8 cm) CD-Single disc in this unit, either with or without an adaptor, as damage to the player and/or disc may occur. Such damage is not covered by the Warranty on this product.
6. The CD player may not operate properly in extreme hot or cold. If such conditions occur, allow the interior of the vehicle to reach a normal temperature before using player.
7. When the vehicle warms up during cold weather or under damp conditions, condensation may appear on the LCD panel. Should this occur, the screen will not operate properly until the moisture has evaporated.
8. We suggest you use a cleaning disc in this unit more frequently than in the unit in your home due to the environmental conditions of the vehicle.

SPECIFICATIONS

DVD/CD Player
Compatible Disc Media: DVD±R / RW (Single and Dual Layer) and CD-R / RW
Compatible Formats: CD-DA, MP3, WMA, VCD, SVCD, MPEG1 / 2 and Kodak picture CD (JPEG).
Signal to Noise Ratio: >95dBA
Dynamic Range: >95dB
Frequency Response: 20Hz to 20 kHz, -3dB
Channel Separation: > 60dB @ 1 kHz
D/A Converter: High performance 24-bit / 192 kHz sample rate, Multi-Bit Sigma-Delta Modulator

Video
Format: NTSC, PAL (auto-detection)
Output: 1Vp-p (75-ohm)
Input: 1Vp-p (75-ohm)

FM Analog Tuner
Tuning Range: 87.5MHz - 107.9MHz
Mono Sensitivity (-30dB): 9dBf
Quieting Sensitivity (-50dB): 15dBf
Alternate Channel Selectivity: 70dB
Signal to Noise Ratio @ 1 kHz: 58dB
Image Rejection: 80dB
Stereo Separation @ 1 kHz: >30dB
Frequency Response: 30Hz - 15 kHz, -3dB

HD Radio Tuner
FM: Hybrid -89 dBm, (40 dBf), All Digital -112 dBm (17dBf)
AM: Hybrid -93, dBm, (36 dBf) All Digital -103 dBm (25dBf)
Stereo Separation: 70 dB
Audio THD: .4%
Frequency Response (+/-3dB) 20 Hz - 18 kHz
Signal-to-Noise Ratio (Stereo): 70 dB

AM Tuner
Tuning Range: 530 kHz - 1710 kHz
Sensitivity (-20dB): 12uV
Signal to Noise Ratio @ 1 kHz: 50dB
Image Rejection: 60dB
Frequency Response: 150Hz - 2 kHz, -3dB

Monitor
Screen Size: 7.0" (Measured diagonally), 16:9 Widescreen
- 6.06" (154.1mm) W X 3.42" (87mm) H

Screen Type: TFT Liquid Crystal Display (LCD) active matrix
Response Time: 30mSec rise time, 50mSec fall time
Resolution:
- 336,960 sub pixels, 1440 (W) X 234 (H)

Viewing angle:
- 65 degrees left or right
- 40 degrees up
- 65 degrees down

General
Auxiliary Input Impedance: 10k-ohm
Power Supply: 11 to 16VDC, negative ground
Power Antenna (Blue): 500mA max, current limited protection
Amplifier Remote (Blue/White): 500mA max, current limited protection
Operating Temperature: -20C ~ 65C
Fuse: 15-amp, mini ATM type
DIN chassis dimensions: 7" X 7" X 2" (178mm x 178mm x 50mm)

CEA Power Ratings

Power Output: 13 Watts RMS x 4 channels into 4-Ohms @ < 1% THD+N
Signal to Noise Ratio: 70dBA below reference (Reference: 1 Watt, 4-Ohms)
Frequency Response: 20 Hz - 20 kHz, -3dB. (Aux Input used as reference input)
Reference Supply Voltage: 14.4VDC

**Specifications subject to change without notice.*

Limited Warranty

CD or Multimedia Radios/Headunits

DO NOT RETURN THIS PRODUCT TO THE STORE

Audiovox Electronics Corporation ("the Company") is committed to quality and customer service, and are pleased to offer you this Warranty. Please read it thoroughly and contact the Company at 1-800-323-4815 with any questions.

Who is covered?

The Company extends this warranty to the original retail purchaser of products purchased through an authorized Audiovox retailer in the U.S.A., Puerto Rico or Canada. This warranty is not transferable or assignable. Proof of purchase is required in the form of an original sales receipt.

What is covered?

The Company warrants that should this product or any part thereof, under normal use, be proven defective in material or workmanship within 12 months from the date of original purchase, such defect(s) will be repaired or replaced with a new or reconditioned product (at the Company's option) without charge for parts and repair labor.

What is not covered?

This Warranty *does not* cover the following:

- Damage incurred during shipping or transporting the product to the Company or a service center
- Elimination of car static or motor noise
- Defects in cosmetic, decorative or non-operative structural parts
- Correction of antenna problems
- Costs incurred for installation, removal or reinstallation of the product
- Consequential damage to compact discs, USB devices, digital media cards, accessories or vehicle electrical systems
- Damage caused by improper installation, mishandling, misuse, neglect, accident, blown fuse, battery leakage, theft or improper storage
- Products whose factory serial number/bar code label(s) or markings have been removed or defaced
- Damage resulting from moisture, humidity, excessive temperature, extreme environmental conditions or external natural causes

Please review the "Care and Maintenance" section of your Installation and Operation Manual for additional information regarding the proper use of your product.

Limitations

THE EXTENT OF THE COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE AND, IN NO EVENT, SHALL THE COMPANY'S LIABILITY EXCEED THE PURCHASE PRICE PAID BY PURCHASER FOR THE PRODUCT.

This Warranty is in lieu of all other express warranties or liabilities. ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. ANY ACTION FOR BREACH OF ANY WARRANTY HEREUNDER INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY MUST BE BROUGHT WITHIN A PERIOD OF 24 MONTHS FROM DATE OF ORIGINAL PURCHASE. IN NO CASE SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WHATSOEVER. No person or representative is authorized to assume for the Company any liability other than expressed herein in connection with the sale of this product.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damage so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Obtaining Warranty Service

- To obtain repair or replacement within the terms of this Warranty, call 1-800-323-4815 for the location of a warranty station serving your area.
- You must prepay the initial shipping charges to the Company. The Company will pay the return shipping charges for all warranteed products returned to an address within the U.S.A., Puerto Rico or Canada.
- Please package the product securely to avoid shipping damage. We recommend using a carrier that provides tracking service to prevent lost packages. Lost or damaged packages are not covered by this warranty.
- Provide a detailed description of the problem(s) for which you require service.

Garantía Limitada

Radios del CD o de los Multimedia

NO RETORNE ESTE PRODUCTO A LA TIENDA

Audiovox Electronics Corporation ("la Compañía) es una corporación comprometida con la calidad y el servicio al cliente, y se complace en ofrecerle esta Garantía. Por favor, léala completamente y contacte a la Compañía al 1-800-323-4815 por cualquier duda.

¿Quién está cubierto?

La Compañía extiende esta garantía al comprador minorista original de los productos comprados a un distribuidor Audiovox autorizado en USA, Puerto Rico o Canadá. Esta garantía no es transferible o asignable. Se requiere prueba de compra en forma de recibo de venta original.

¿Qué está cubierto?

La Compañía garantiza que si este producto o cualquier parte del mismo, bajo uso normal, se prueba que tiene defectos en materiales o mano de obra dentro de los 12 meses desde la fecha de compra original, dichos defectos serán reparados o reemplazados con un producto nuevo o reacondicionado (a opción de la Compañía) sin costos por repuestos o por labor de reparación.

¿Qué no está cubierto?

Esta Garantía *no cubre* lo siguiente:

- Daños ocurridos durante el envío o transporte del producto a la Compañía o al centro de servicio
- Eliminación de estática o ruido de motor
- Defectos en cosmética, partes estructurales decorativas o no operativas
- Corrección de problemas de antena
- Costos incurridos por instalación, retiro o reinstalación del producto
- Daños consecuentes a discos compactos, dispositivos USB, tarjetas multimedia digitales, accesorios o sistemas eléctricos del vehículo
- Daños causados por instalación inadecuada, mal manejo o uso, negligencia, accidentes, fusibles quemados, goteras en la batería, robo o almacenamiento inadecuado.
- Productos cuyo número de serie o código de barra de fábrica o sus marcas hayan sido quitados o borrados
- Daños resultantes de la humedad, temperatura excesiva, condiciones medioambientales extremas o causas naturales externas

Por favor, revea la sección "Cuidados y Mantenimiento" de su Manual de Instalación y Operación para obtener información adicional relacionada al uso adecuado de su producto.

Limitaciones

LA EXTENSIÓN DE LA RESPONSABILIDAD DE LA COMPAÑÍA BAJO ESTA GARANTÍA SE LIMITA A LA REPARACIÓN O REEMPLAZO PROVISTO ARRIBA Y, EN NINGÚN CASO, EXCEDERÁ LA RESPONSABILIDAD DE LA COMPAÑÍA EL PRECIO DE COMPRA PAGADO POR EL COMPRADOR DEL PRODUCTO.

Esta Garantía está en lugar de todas las otras garantías o responsabilidades. CUALQUIER GARANTÍAS IMPLICADAS, INCLUYENDO CUALQUIER GARANTÍA IMPLICADA DE MERCANTIBILIDAD, SERÁ LIMITADA A LA DURACIÓN DE ESTA GARANTÍA ESCRITA. CUALQUIER ACCIÓN POR INCLUMPLIMIENTO DE CUALQUIER GARANTÍA AQUÍ ESPECIFICADA INCLUIDA CUALQUIER GARANTÍA IMPLÍCITA DE MERCANTIBILIDAD DEBE SER LLEVADA A CABO DENTRO DE UN PERIDO DE 24 MESES DESDE LA FECHA DE COMPRA ORIGINAL. IN NINGÚN CASO LA COMPAÑÍA SERÁ RESPONSABLE POR NINGÚN DAÑO CONSECUENTE O INCIDENTAL POR INCLUMPLIMIENTO DE ESTA O CUALQUIER OTRA GARANTÍA, EXPRESA O IMPLICADA, DE NINGUNA FORMA. No se autoriza a ninguna persona o representante a asumir por parte de la Compañía ninguna responsabilidad diferente a la aquí expresada en conexión con la venta de este producto.

Algunos estados no permiten limitaciones sobre el tiempo de duración de una garantía implicada o de la exclusión o limitación de daños incidentales o consecuentes, entonces las limitaciones y exclusiones antes mencionadas pueden no aplicarle a usted. Esta Garantía le da derechos legales específicos y usted también puede tener otros derechos que pueden variar de estado en estado.

Obteniendo el Servicio de Garantía

- Para obtener reparación o reemplazo dentro de los términos de esta Garantía, llame al 1-800-323-4815 por la ubicación de un servicio de garantía en su área.
- Usted debe pagar previamente los costos de envío inicial a la Compañía. La Compañía pagará los costos de envío de retorno de todos los productos en garantía enviados a direcciones dentro de USA, Puerto Rico o Canadá.
- Por favor empaquete el producto de forma segura para evitar daños en el transporte. Recomendamos usar una empresa de transporte que provea servicio de rastreo para prevenir la pérdida de paquetes. Paquetes perdidos o dañados no están cubiertos por esta garantía.
- Provea una descripción detallada del problema o problemas por los cuales usted requiere servicio.

Garantie Limitée

Radios CD ou Multimédia / Unités principales

NE RENVOYEZ PAS CE PRODUIT AU MAGASIN

Audiovox Electronics Corporation (la Société) s'engage à la qualité et au service des clients, et est content de vous offrir cette garantie. Nous vous prions de le lire attentivement et prendre contact avec la Société au 1-800-323-4815 avec des questions.

Qui est couvert ?

La Société étend cette garantie à l'acheteur d'origine en détail des produits achetés à un détaillant autorisé d'Audiovox aux Etats-Unis, Puerto Rico ou Canada. Cette garantie ne peut pas être transférée ni aliénée. Preuve d'achat est exigé sous forme du récépissé de vente d'origine.

Ce qui est couvert ?

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Cette garantie *ne* couvre pas le suivant :

- Des dommages survenus lors de la transportation de ce produit à la Société ou à un centre d'entretien.
- Elimination des parasites de voiture ou le bruit du moteur
- Des défauts dans des parties cosmétiques, décoratives ou structurelles non-opératives
- Rectification des problèmes d'antenne
- Le coût de l'installation, de l'enlèvement ou de la réinstallation du produit
- Dommages indirects aux disques compacts, des engins USB, des cartes de média digitales, des accessoires ou le système électrique du véhicule
- Des dégâts survenus à cause de la manipulation mauvaise, l'installation incorrecte, mauvaise utilisation, négligence, des accidents, des fusibles sautés, fuite de la pile, du vol et du stockage incorrect
- Produits soumis à l'enlèvement ou la dégradation du numéro de série d'usine/étiquettes de code à barres ou des marquages.
- Des dégâts survenus à cause de la moisissure, l'humidité, des températures excessives, des conditions environnementales extrêmes ou des causes naturelles externes

Veuillez revoir la section Soin et Entretien de votre Guide d'Opération, pour avoir des informations supplémentaires quant à la bonne utilisation de votre produit.

Limitations

LA MESURE DE LA RESPONSABILITE DE LA SOCIETE SOUS CETTE GARANTIE EST LIMITEE A LA REPARATION OU REMPLACEMENT MENTIONNES CI-DESSUS ET DANS AUCUN CAS LA RESPONSABILITE DE LA SOCIETE N'EXCEDERA LE PRIX D'ACHAT PAYE PAR L'ACHETEUR POUR CE PRODUIT.

Cette garantie tient lieu de toute autre garantie ou responsabilité expresses. TOUTE GARANTIE IMPLIQUEE, Y COMPRISE UNE GARANTIE IMPLIQUEE DE MARCHANDABILITE , SERA LIMITEE A LA DUREE DE CETTE GARANTIE ECRITE. TOUTE ACTION POUR RUPTURE D'UNE GARANTIE QUELCONQUE SOUS LA PRESENTE, Y COMPRIS TOUTE GARANTIE IMPLIQUEE DE MARCHANDABILITE DOIT ÊTRE PORTEE DANS UNE PERIODE DE 24 MOIS DEPUIS LA DATE D'ACHAT D'ORIGINE. EN AUCUN CAS LA SOCIETE NE SERA RESPONSABLE POUR TOUT DOMMAGE INDIRECT OU ACCESSOIRE POUR RUPTURE DE CETTE GARANTIE OU TOUTE AUTRE GARANTIE, EXPRESSE OU IMPLIQUEE. Aucune personne ni un représentant n'est autorisée d'assumer de la part de la société une responsabilité autre que celle exprimée ici relatif à la vente de ce produit.

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Obtenir le service de garantie

- Pour obtenir la réparation ou le remplacement dans les termes de cette garantie, appelez 1-800-323-4815 pour avoir l'emplacement d'une station de garantie qui dessert votre région.
- Si le produit est envoyé pour un service de garantie vous devez payer les frais de transportation de départ. La Société payera la transportation de retour pour tout produit sous garantie si le produit est retourné à une adresse située aux Etats-Unis, Puerto Rico ou Canada.
- Assurez-vous que le produit soit bien emballé pour éviter des accidents pendant la transportation. Nous recommandons un transporteur qui fourni un service de dépistage pour éviter la perte des paquets. Des paquets perdus ou endommagés ne sont pas couverts par cette garantie.
- Fournissez une description détaillée des problèmes que vous voulez faire résoudre par le service de garantie.

Audiovox Electronics Corporation
Hauppauge, NY 11788
Technical Assistance: 1-800-323-4815
www.jensen.com

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Installation Guide
Instruccionnes de Instalación
Instructions d'installation

Para obtener instrucciones en Español, diríjase a la página 5. Pour des instructions en Francais, référez-vous à la page 9.

VM9413

What's in the Box

VM9413 Head Unit
Cosmetic trim ring
Wiring harness power/speaker
Mounting hardware for the head unit
Single DIN sleeve
jLink[3] iPod Cable
HDRM-2 HD Radio Module
HD Radio Module connecting DIN cable
Remote Control
Parking brake sensor extension wire
MediaLink[4]
Mounting hardware for
HDRM-2 HD Radio Module
Owners Manual

Tools and Supplies

You will need these tools and supplies to install your VM9413:

- Torx type, flat-head and Philips screwdrivers
- Wire cutters and strippers
- Tools to remove existing radio (screwdriver, socket wrench set or other tools)
- Electrical tape
- Crimping tool
- Volt meter/test light
- Crimp connections
- 18 gauge wire for power connections
- 16 – 18 gauge speaker wire

WARNING! Never install this unit where operation and viewing could interfere with safe driving conditions.

Optional Equipment

- **NAV102**: Allows you to access navigation features. All installation and operating instructions are included with the navigation module.
- **BTM10**: Allows you to connect to a Bluetooth enabled cell phone or other device.
- **Rear Camera**
- **CNP2000UC and CNPJEN1** (XM Radio tuner and antenna)

Disconnecting the Battery

To prevent a short circuit, be sure to turn off the ignition and remove the negative (-) battery cable prior to installation.

NOTE: If the VM9413 is to be installed in a car equipped with an on-board drive or navigation computer, do not disconnect the battery cable. If the cable is disconnected, the computer memory may be lost. Under these conditions, use extra caution during installation to avoid causing a short circuit.

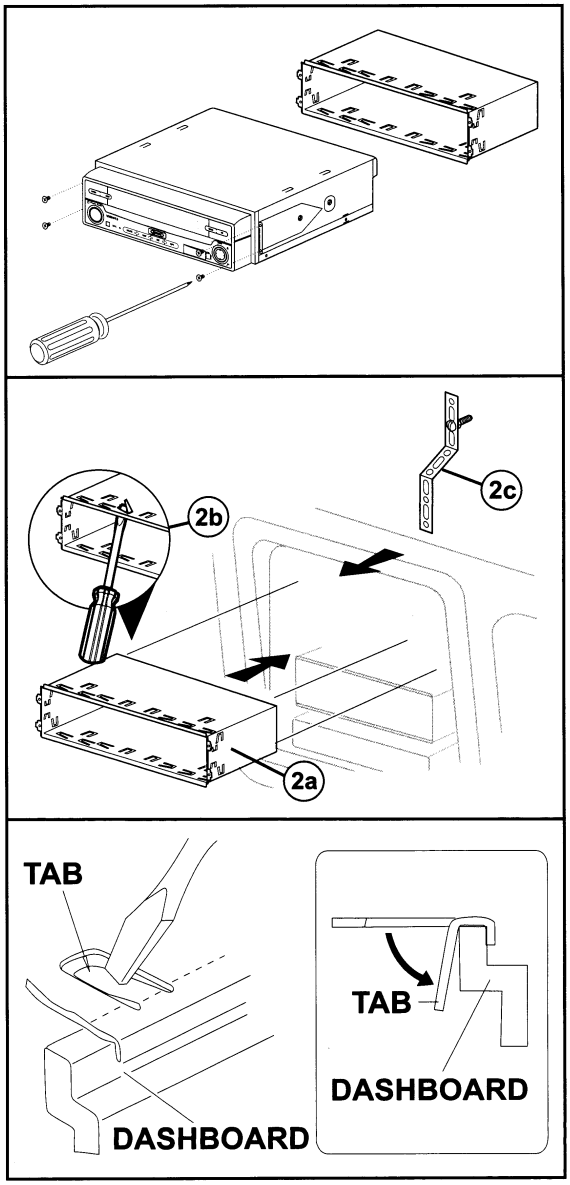
Pre-installation

1. Remove the four screws that attach the mounting sleeve to the radio and remove the sleeve.

2. Install the mounting sleeve.
   a. Install mounting sleeve into the dashboard or optional adapter. Do not force the sleeve into the opening or cause it to bend or bow.
   b. Locate the series of bend-tabs along the top, bottom and sides of the mounting sleeve. With the sleeve fully inserted into the dashboard opening, bend as many of the tabs outward as necessary so that the sleeve is firmly secured to the dashboard.
   c. Install support strap to make the unit more stable.

3. Place the radio in front of the dashboard opening so the wiring can be brought through the mounting sleeve.

CAUTION! Be careful not to damage the car wiring.



Wiring

WARNING! Only connect the unit to a 12-volt power supply with proper grounding.

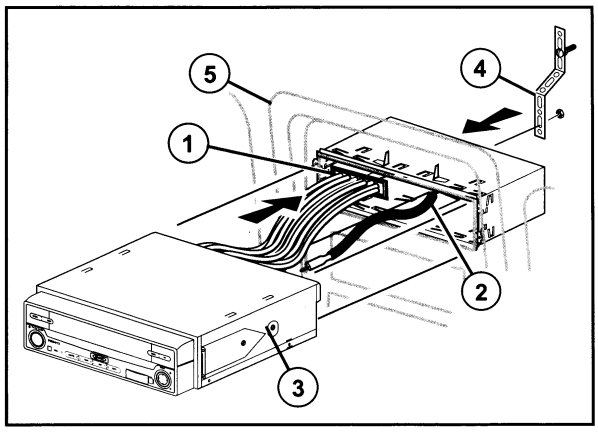
Complete wiring as illustrated in the wiring diagram on page 4. Once the wiring is complete, reconnect the battery negative terminal. If there is no ACC available, connect the ACC lead to the power supply with a switch.

NOTE: When replacing a fuse, be sure to use correct type and amperage to avoid damaging the radio. The VM9413 uses one 15 amp fuse, located in the black filter box in-line with the main wire harness.

Final Installation

After completing the wiring connections, turn the unit on to confirm operation (ignition switch must be on). If unit does not operate, recheck all wiring until problem is corrected. Once proper operation is achieved, turn off the ignition switch and proceed with final mounting of the chassis.

1. Connect wiring adapter to existing wiring harness.
2. Connect antenna lead.
3. Carefully slide the radio into the mounting sleeve, making sure it is right-side-up, and secure with the original 4 screws.
4. Attach one end of the perforated support strap (supplied) to the screw stud, which is screwed into the threaded insert on the back of the unit, using the hex nut provided. Fasten the other end of the perforated strap to a secure part of the dashboard either above or below the radio using the screw and hex nut provided. Bend the strap to position it as necessary.
5. Replace any items you removed from the dashboard.

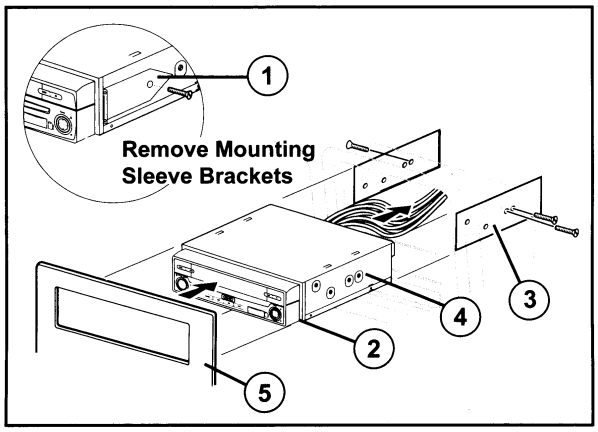


CAUTION! The rear of the radio must be supported with the strap to prevent damage to the dashboard from the weight of the radio or improper operation due to vibration.

NOTE: For proper operation of the CD/DVD player, the chassis must be mounted within 20° of horizontal. Make sure the unit is mounted within this limitation.

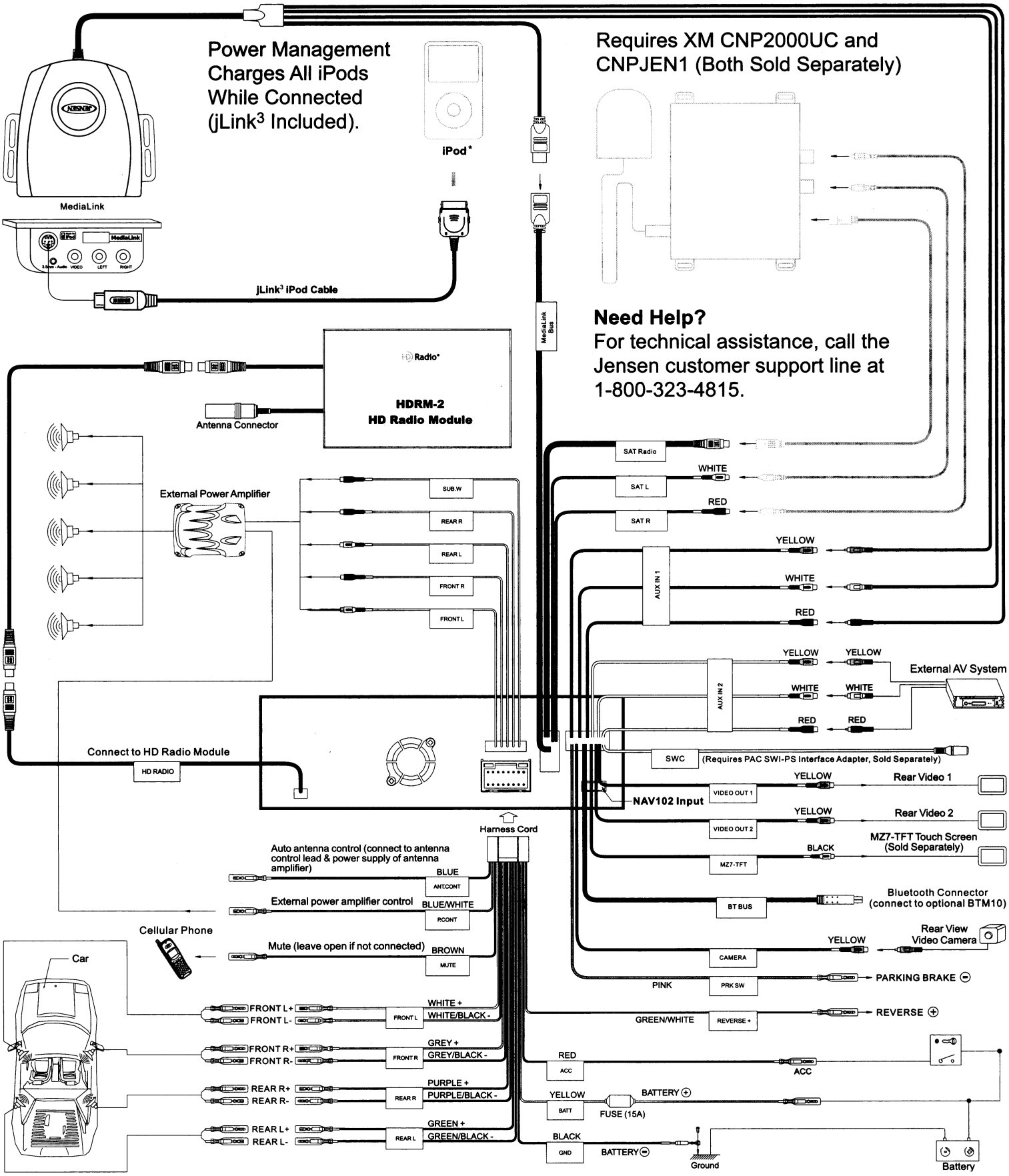
ISO-DIN Installation

1. Remove mounting sleeve brackets.
2. Remove trim ring.
3. Mount factory brackets on new radio using existing screws from old radio.
4. Slide radio chassis into dash opening and secure.
5. Re-install dash panel.



Wiring Diagram

IMPORTANT: Incorrect wiring connections can damage the unit. Follow the wiring instructions carefully, or have the installation handled by an experienced technician.



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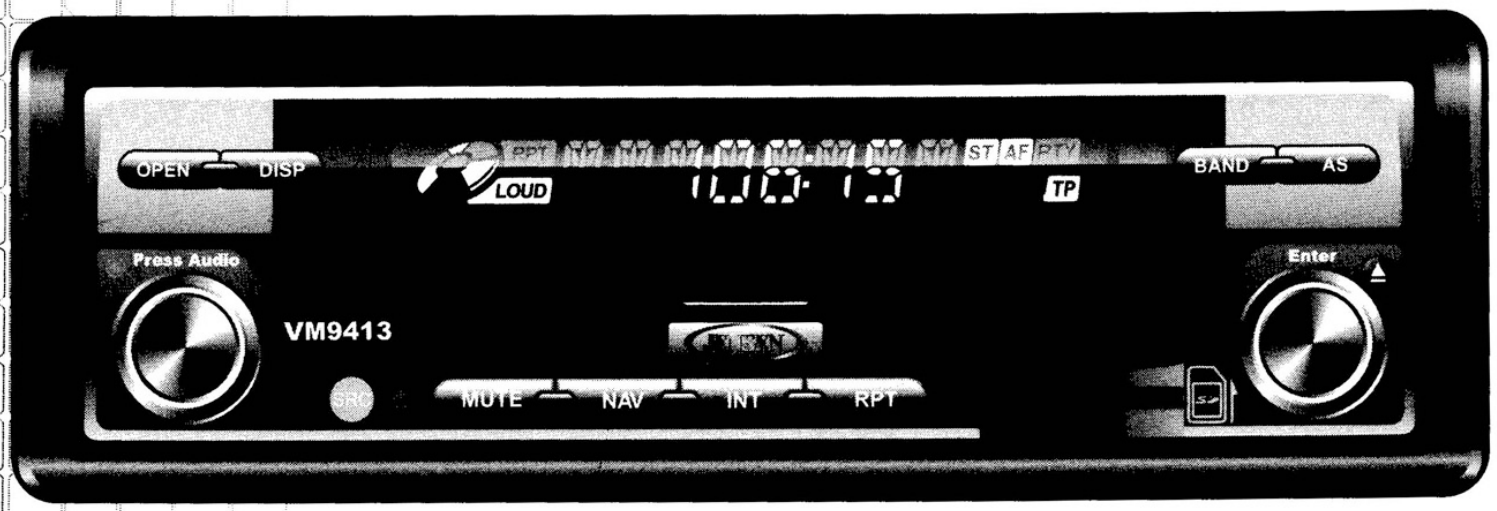
VM9413 Quick Reference Guide



Featuring:

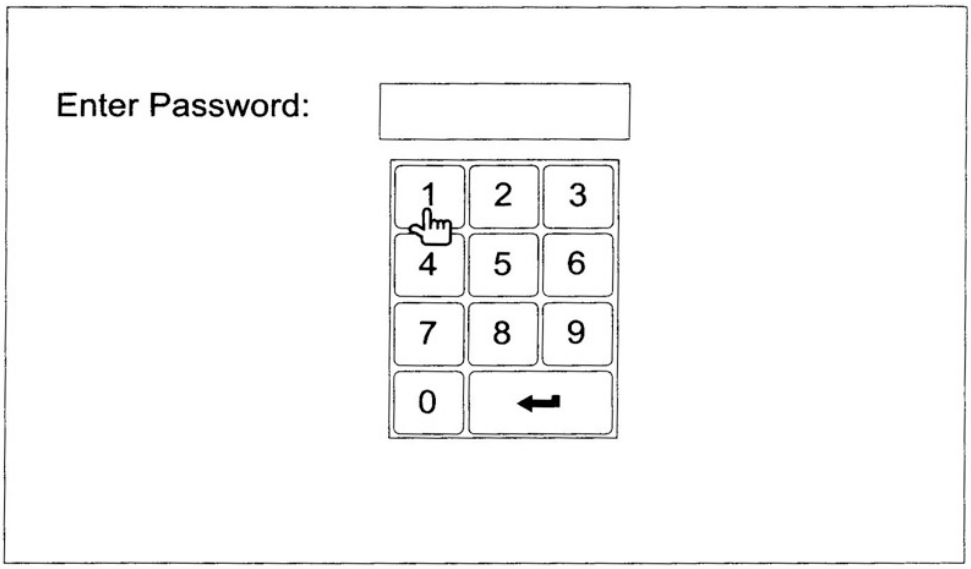
DVD, CD, MP3, WMA, USB and SD Playback
Touch Screen Interface
MediaLink4 A/V Input
Front Panel SD input
Composite Video Out
Remote Control
Navigation Ready (NAV102 Only)
Bluetooth Ready (Requires BTM10)

- Navigation operation requires NAV102 installation
- Bluetooth operation requires BTM10 installation
- Rear Camera operation requires rear camera installation

Anti-Theft Feature

Entering the Default Password

The VM9413 is equipped with an anti-theft feature requiring the user to enter a password upon initial power on.

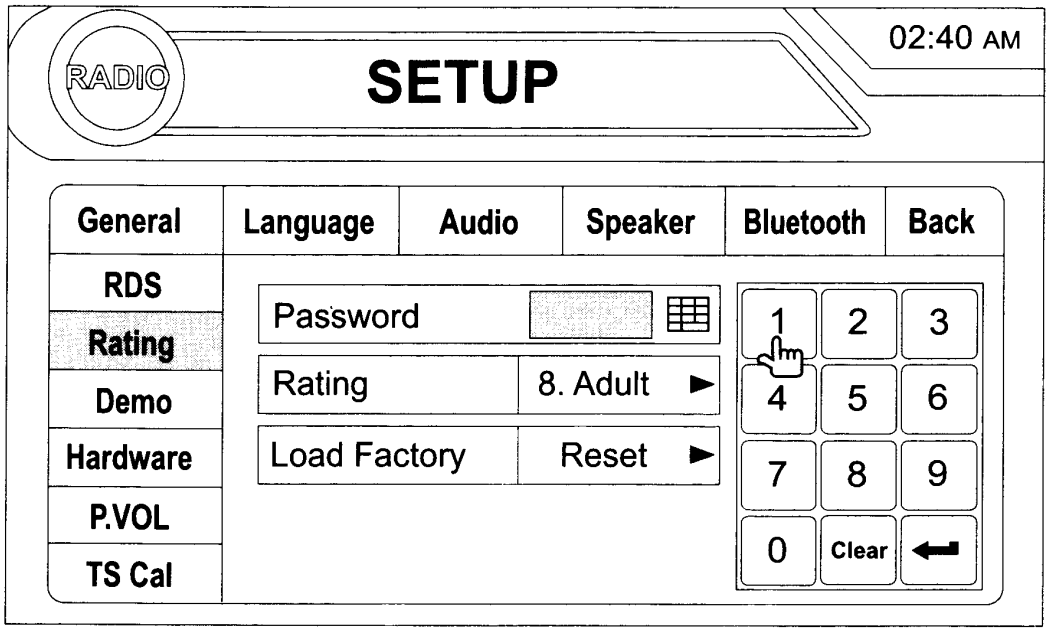


The default user password is 012345 (6 digits). Enter the password using the on-screen keypad and then press the Enter (arrow) button. You can also use the remote control keypad to enter the password.

Changing the Password

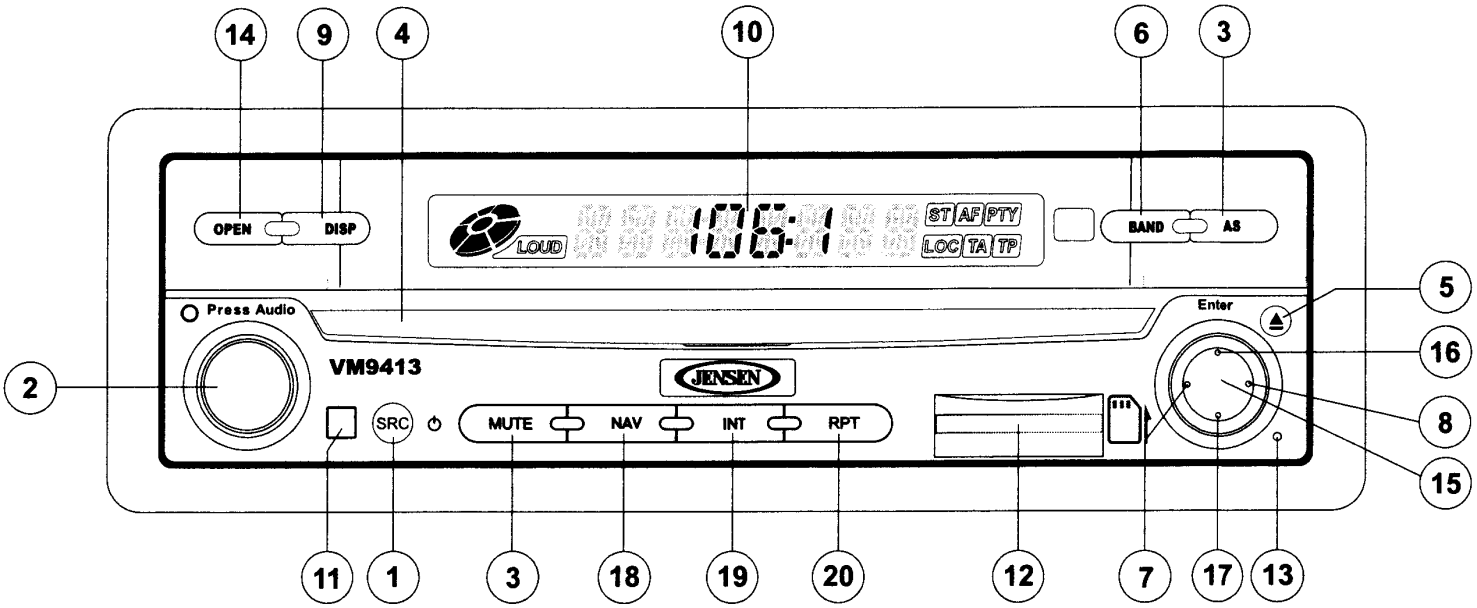
To change the anti-theft and RATINGS protection password,perform the following steps:

1. Press the **SETUP** button on the remote control or touch the button on the screen to enter the "SETUP" menu.
2. Touch RATING to view the "RATING" sub-menu. An open lock icon to the right of the "Password" field indicates that a user password had not yet been entered.
3. Touch the keypad icon next to the blue box in the "Password" field to open the on-screen keypad.
4. Enter a new 6-digit password and press the Enter (arrow) button.
   The "lock" icon will now appear closed and the new anti-theft password will be set, as well as the password for RATING protection.



NOTE: If you forget your password, contact Customer Service at 1-800-323-4815 for assistance.

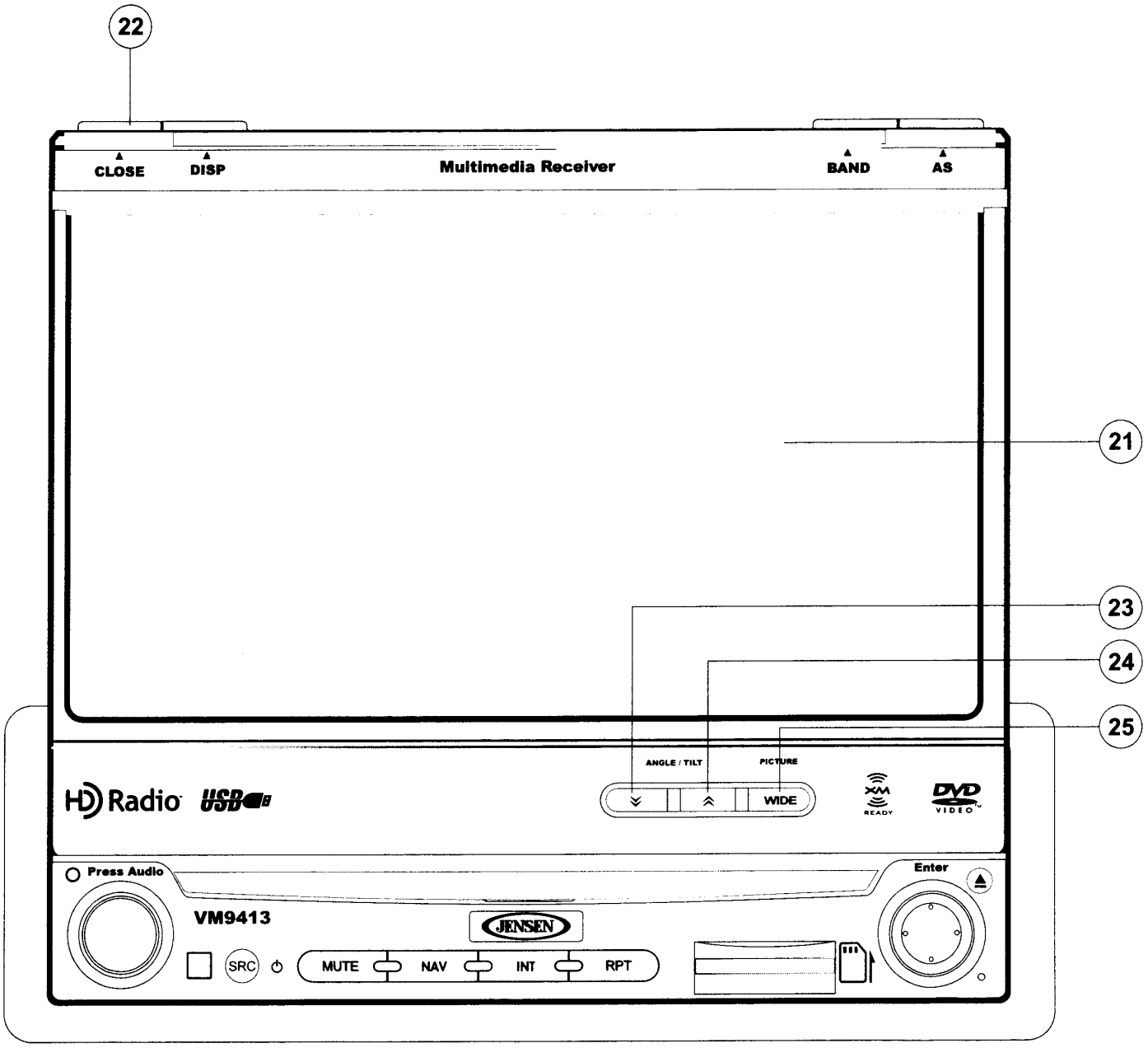
Controls and Indicators



1. Press to turn the unit on. *Press and hold* to turn the unit off.
   Press repeatedly to select playing mode.
2. Turn to adjust the volume.
   Press and hold to access audio menu. While in menu, press repeatedly to view audio settings.
3. Press to mute audio. Press again to resume previous volume.
4. Insert disc for automatic playback.
5. Press to eject disc.
   Press and hold to reset core mechanism position.
6. Press to change the AM, FM or SAT band.
7. Press to play the previous chapter/track or auto-search the previous available radio station. In menu mode, press to move the cursor to the left.
8. Press to access the next chapter or track or auto-search the next available radio station. In menu mode, press to move the cursor to the right.
9. Press to cycle through information available on the LCD or TFT screen. In DVD Mode, press to view the top and bottom information bars. Press again to turn "Display Off".

10. View playback information on secondary LCD.
11. Point remote control at IR Receiver to control functions.
12. Insert SD card for playback of media files through the radio.
13. Use thin metallic object to depress RESET button and restore factory default settings.
14. Press to open TFT screen.
15. Press to pause or resume playback or to confirm current selection.
16. Press to fast forward/fast reverse disc or tune up one frequency step in tuner mode. In menu mode, press to move the cursor up.
17. Press to slow forward/slow reverse disc or tune down one frequency step in tuner mode. In menu mode, press to move the cursor down.
18. When the NAV102 is connected to the head unit, press to display the navigation user interface. The TFT screen must be open for this function to operate.
19. Press to control intro playback function.
20. Press to control repeat playback function.

Controls and Indicators (continued)

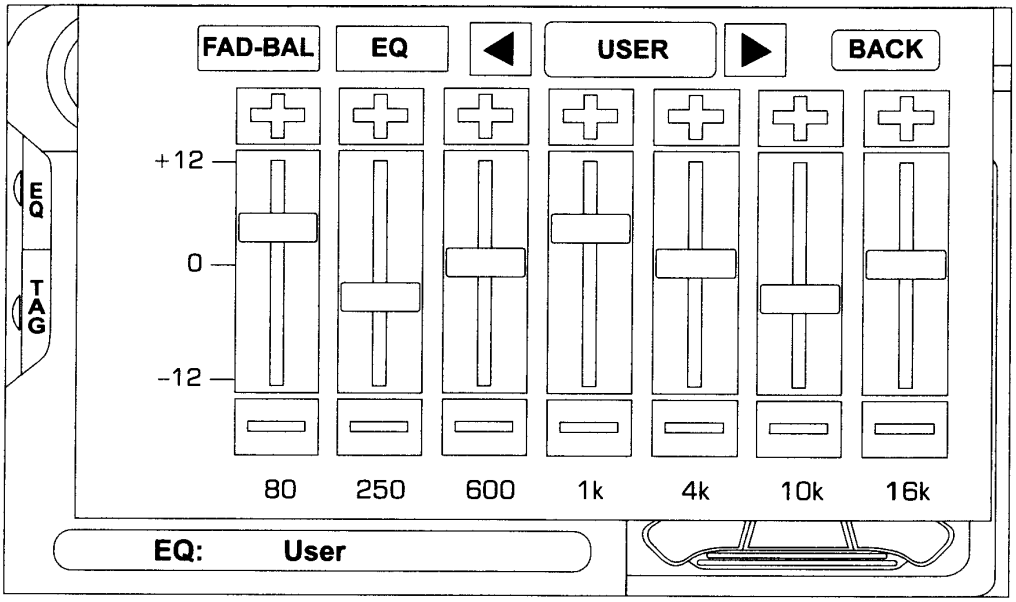


21. Touch the TFT screen to control head unit functions.
22. Press to close the TFT screen.
23. Press once to adjust the downward tilt angle of the screen one step at a time or *press and hold* to adjust the angle in a continuous motion.
24. Press once to adjust the upward tilt angle of the screen one step at a time or *press and hold* to adjust the angle in a continuous motion.
25. Press to adjust the display aspect ratio of the picture to one of three settings: Full, Normal or Standby.
    Press and hold to adjust the Brightness and Contrast. Press the volume control to move between Brightness and Contrast. Turn the rotary encoder to adjust the setting for the selected option.

Common User Settings

Audio Control Menu

Touch the **EQ** button on the left side of the screen to access the Audio Control Menu, shown below.



Touch the "FAD-BAL" button to access a second screen with the Balance/Fader settings.

Use the arrows on either side of the box where "User" is selected, to choose a preset equalizer level.

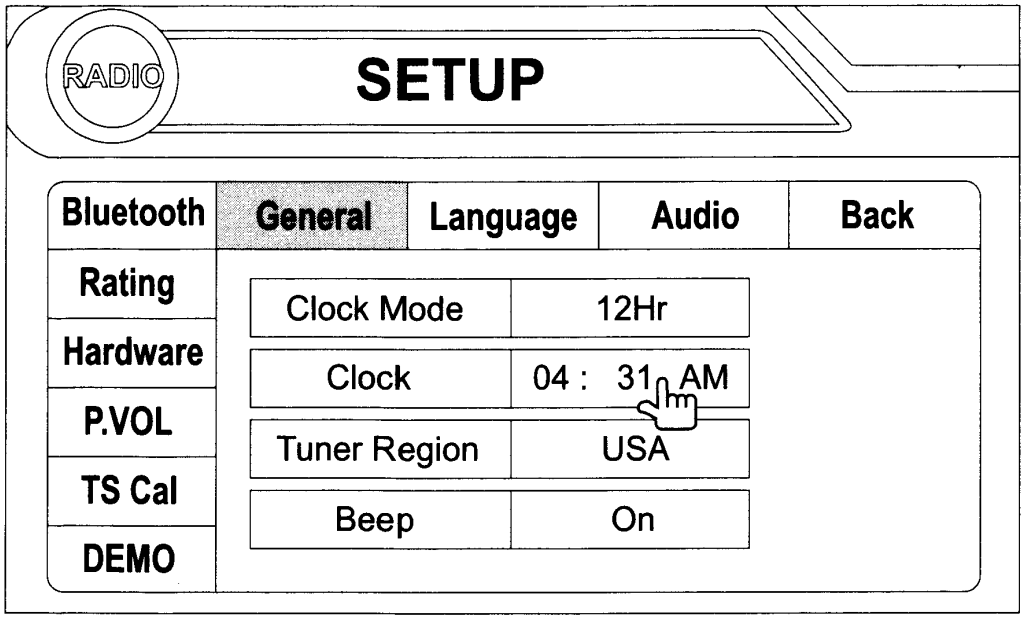
1. Use the touchscreen or the left/right joystick buttons on the unit or remote control to highlight the audio feature to be adjusted.
2. Touch the screen or press the joystick enter button to select the highlighted option.
3. Touch the +/– buttons on the screen or use the joystick to adjust the selected feature to the desired setting.

NOTE **The EQ mode will automatically change to "USER" when individual audio functions are adjusted.**

Set Clock

The clock appears in the top right corner of the screen and on the LCD screen during certain operations.

To set the clock, you must first press the button on the screen to access the SETUP menu.

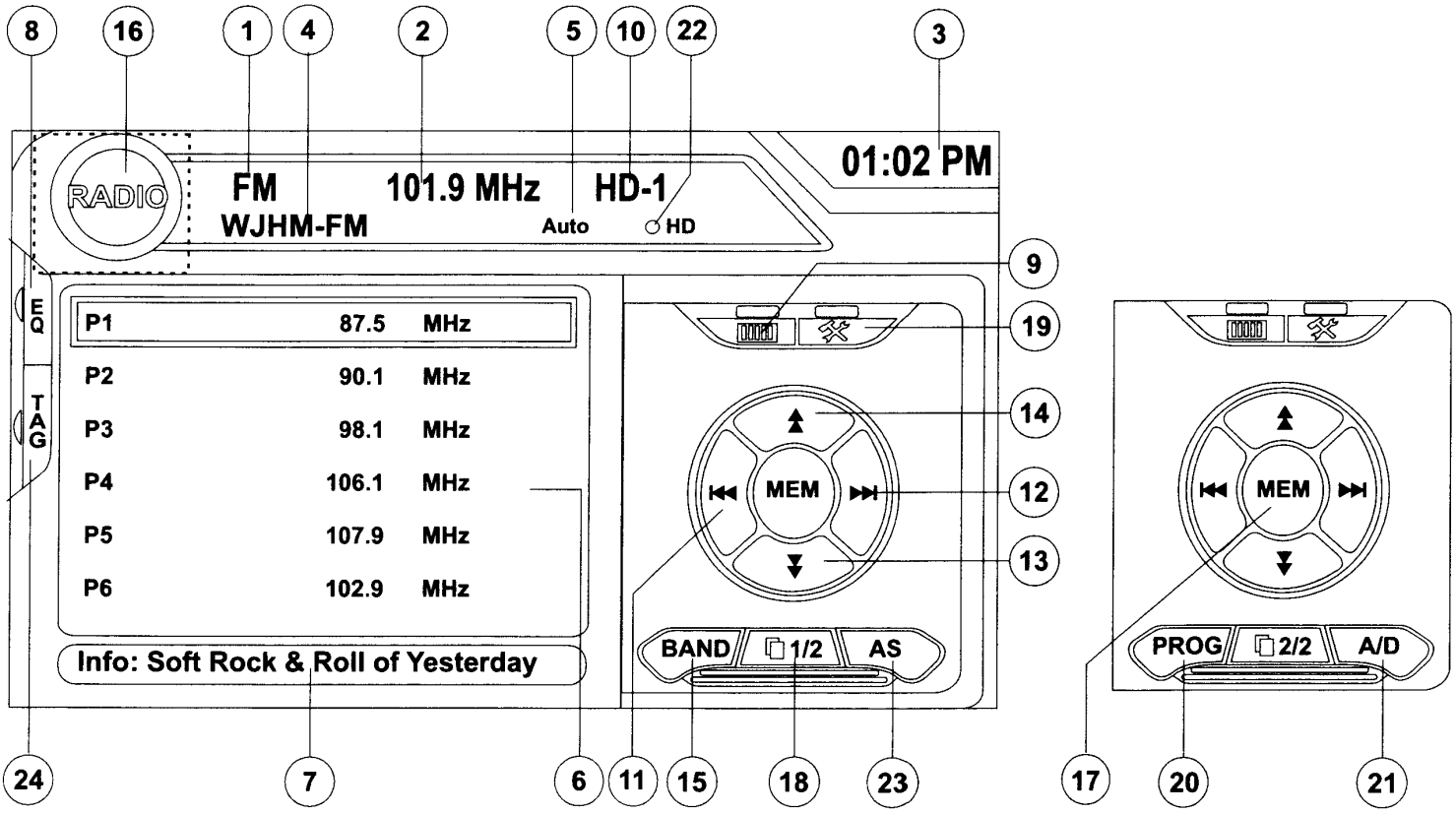


Touch the menu titles across the left and top of the menu to see highlighted sub-menu options in the center of the screen.

Touch the menu option you want to adjust, then use the touch screen to adjust the setting.

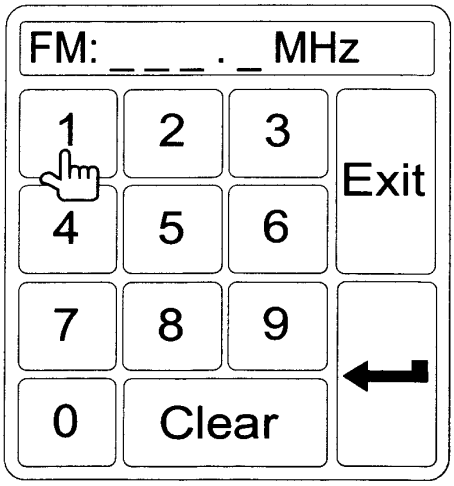
1. Use the touch screen or joystick to select the Clock option.
2. Use the touch screen or press the joystick enter button to access the adjustment field.
3. Select a new value using the touch screen or left/right joystick buttons. The AM/PM indication will change as you continue to adjust the hour past 12.
4. Use the touch screen or press the joystick enter button to confirm and exit the SETUP menu.

Tuner User Interface



1. Current radio band indicator
2. Radio frequency indicator
3. Clock display
4. Radio station name (call letters)
5. Tuning mode indicator (local/distant)
6. Touch to recall preset stations.
7. Program Information: Title, Artist, Type
   NOTE: The amount of information displayed when receiving an HD Radio signal is dependent upon what is being broadcast. Some stations broadcast their call letters (name), the artist's name, song title, and category of music.

Direct Entry Screen



8. Touch for quick access to Equalizer level settings.
9. Touch to access the Direct Entry Screen. Enter the desired frequency and then touch the ↵ button. You can also press **GOTO** on the remote control to access the Direct Entry Screen.
10. HD Radio band indicator
11. **|<<**: Touch to seek backward.
12. **>>|**: Touch to seek forward.
13. **<<**: Touch to tune backward one step.
14. **>>**: Touch to tune forward one step.
15. **BAND:** Touch to change bands.
16. Touch to view the SOURCE MENU and select a new playback source. You can also change the source by pressing the **SRC** button on the control panel or remote control.
17. **MEM**: View screen used to enter current channel into preset memory. Touch **P1 - P6** to store or **Exit** to leave the screen.
18. **1/2 or 2/2**: Touch this page button to view a second page of on-screen buttons. *NOTE: In AM mode, there is only one page of on-screen button options. The PROG button is not visible since Multicast channels are not available for AM stations.*
19. View SETUP menu.
20. **PROG**: Touch to view the HD Radio Multicast channel display
21. **A/D**: Touch to select Auto, Analog or Digital tuning mode.
22. HD Radio Signal Indicator.
23. Auto memory scan.
24. **TAG**: Touch to perform iTunes tagging for current song.

iTunes® Tagging

The VM9413 offers iTunes® Tagging, which allows the user to "Tag" songs playing on HD Radio™ stations for purchase later through iTunes. When the onscreen TAG button is touched, the unit stores the title and artist song information that can then be transferred to your iPod when connected to the MediaLink4. A list titled "Tagged" will appear in iTunes, allowing you the option to purchase your tagged songs.

iPod Compatibility

Models supported, but not limited to, include the following

- iPod nano 4G
- iPod Classic
- iPod Touch
- iPod 5G
- iPod nano 3G

Tagging Music

1. Tune to an HD Radio station.
2. Touch the onscreen TAG button or press the MENU/TAG button on the remote control. “Adding Tag...” will appear in the display. The song information is saved to the VM9413 memory until an iPod is connected. You can tag up to 64 songs before the tags must be transferred to an iPod or deleted.

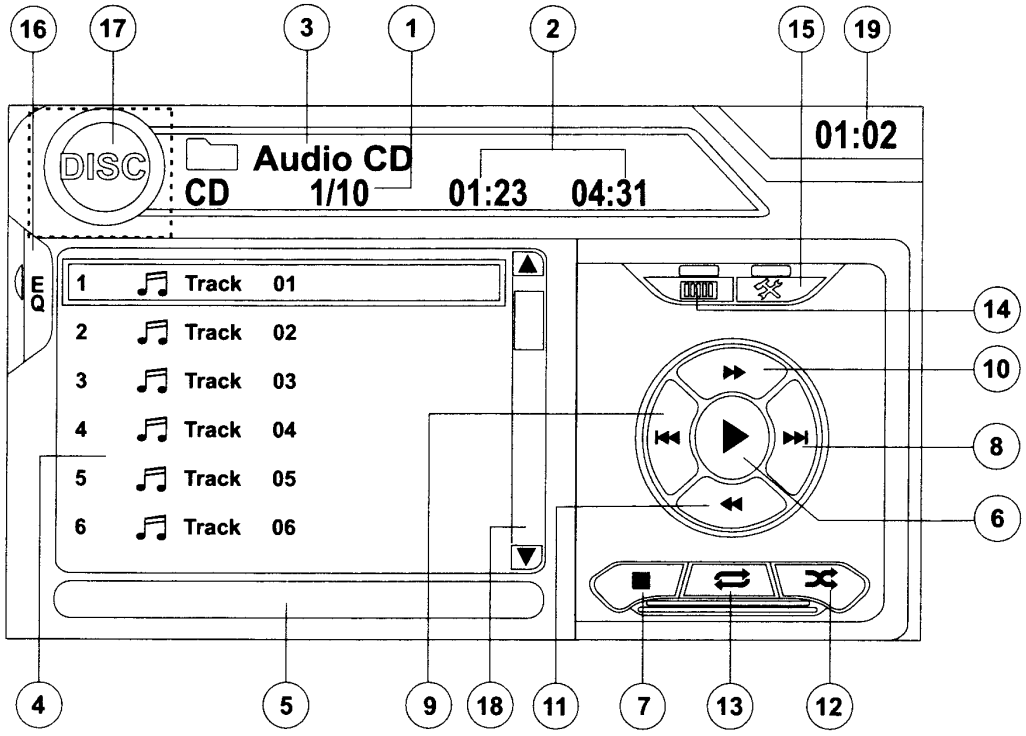
Tag Message	Reason
Storing Tag...	TAG button is pressed
Tag Stored ## of 64	Successful storage of tag
## Tag(s) Sent	Tag(s) successfully transferred
Memory full, Connect iPod	Tag storage is full
Insufficient Tag Data	Tag data is not available
Tag transfer failed	Tag transfer failed
iPod full, Tag cannot be stored	iPod memory is full
Tagging not supported	Unsupported iPod is connected

Downloading Tags to your iPod

To download tags to your iPod, plug an iPod into the iPod jLink[3] and then into the MediaLink[4] iPod connector. All existing tags are automatically transferred to the iPod and deleted from the head unit's memory. If an iPod is connected when a song is tagged, the Tag will be immediately transferred to the iPod.

NOTE **When transferring Tags to an iPod, the VM9413 must remain in Radio mode until the "## Tag(s) Sent" message is displayed. To purchase tagged songs, you must sync your iPod to iTunes and then click the "Tagged" list on the left side of the iTunes software screen. Click the "view" button for purchasing information.**

CD/DVD Audio Operation



The VM9413 will play music or other audio files from the following disc media:

- *CD-DA*
- *CD-R/RW*
- *DVD*
- *DVD+R/RW*
- *DVD-R/RW*

CD-R and CD-RW will not play unless the recording session is finalized.

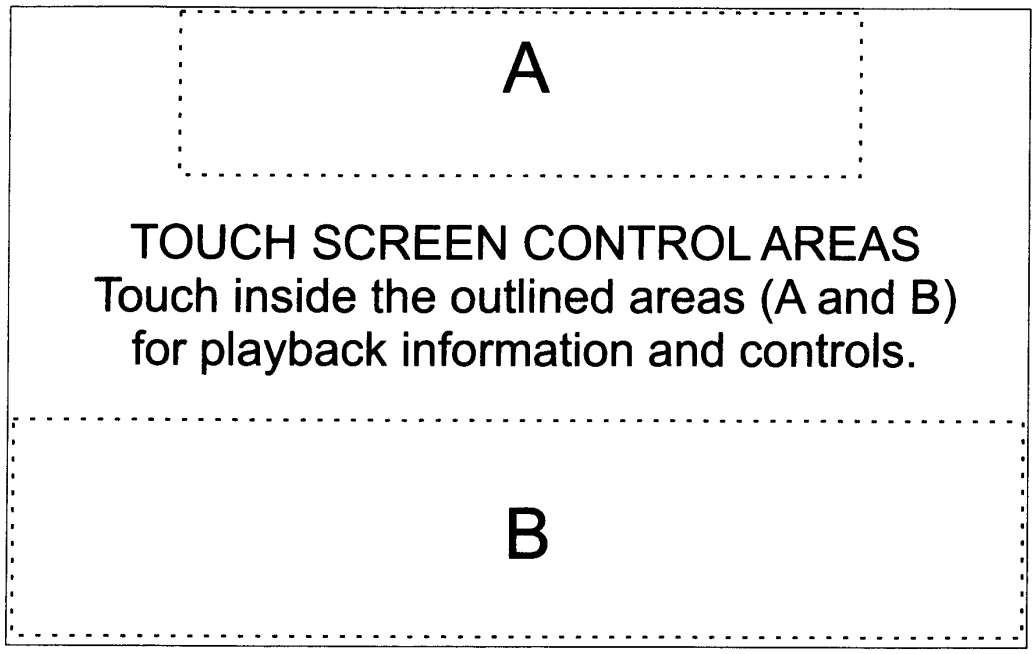
1. Current track and total number of tracks on disc
2. Elapsed playing time
3. Disc title
4. Track titles (if available on disc)
5. ID3 information
6. ▶/||: Touch to play/pause disc playback.
7. ■: Touch to stop disc playback.
8. >>|: Touch to move to next track.
9. |<<: Touch to move to previous track.
10. >>: Touch to fast forward current track.
11. <<: Touch to rewind current track.
12. Touch to activate/deactivate Random mode.

13. Touch to activate/deactivate Repeat play mode.

NOTE **During disc play, press the INT button on the remote control to play the first 10 seconds of each track. When a desired track is reached, press the INT button again to play the selected track.**

14. Touch to access the direct entry screen.
15. : Touch to view the SETUP menu.
16. Touch for quick access to Equalizer level settings.
17. Touch to view the SOURCE MENU and select a new playback source.
18. Touch the scroll bar and arrows to view the previous/ next page of songs.
19. Current time

CD/DVD Video Operation



A – Displays playback information

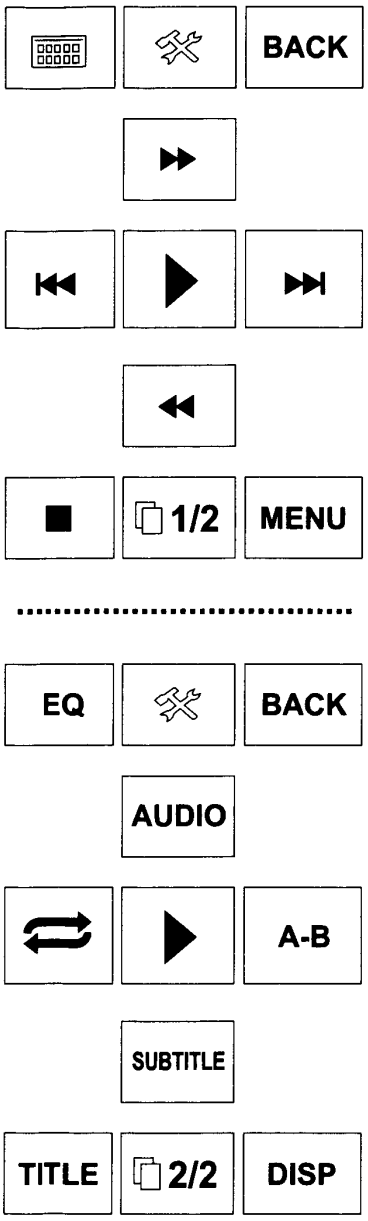
B – Displays on-screen control menu

DVD Display Info → DVD T : 5/8 C : 2/16 00:41:28 2/6 Eng

VCD Display Info → VCD 2.0 T : 6/18 00:41:28

- T : 5/8 – "5/8" indicates the fifth of 8 titles on the DVD is currently playing.
- C : 2/16 – "2/16" indicates that the second of 16 chapters/tracks on the disc is currently playing.
- 00:41:28 – "00:41:28" indicates the playback time of the current title/track.
- 2/6 Eng – The language display information indicates the second language out of 6 (English) is currently being used.
- VCD 2.0 – Format of current disc.

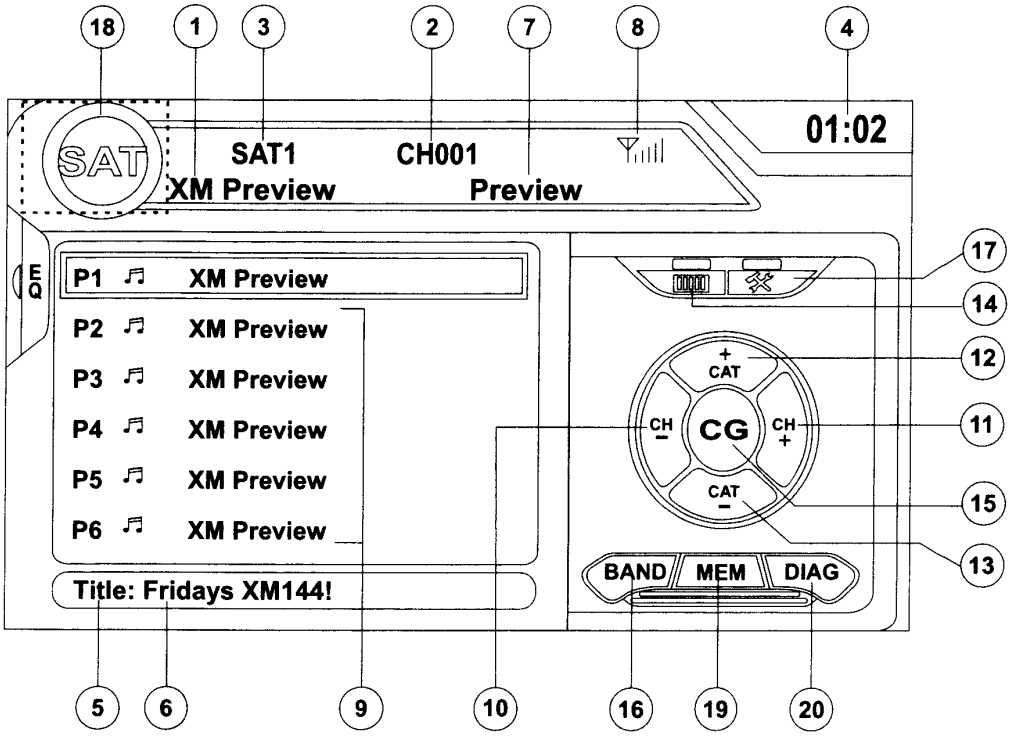
To access the on-screen controls, touch the bottom 1/3 of the screen (section B). Touch the 1/2 button to view a second page of controls.



	Access the direct entry screen
	Access the SETUP menu
BACK	Exit on-screen control menu
	Rewind/Fast Forward
	Previous/Next track or title
	Play/Pause
	Stop playback
1/2	View second page of on-screen controls
MENU	Access DVD Main Menu
EQ	Adjust Equalizer settings
AUDIO	Change audio language for disc playback
	Repeat play current track/chapter
A-B	Press to select beginning repeat point. Press again to select end repeat point. Press again to stop.
SUBTITLE	Select language for subtitles
TITLE	Select different title for playback
2/2	View first page of on-screen controls
DISP	Display playback information

Satellite Radio Operation

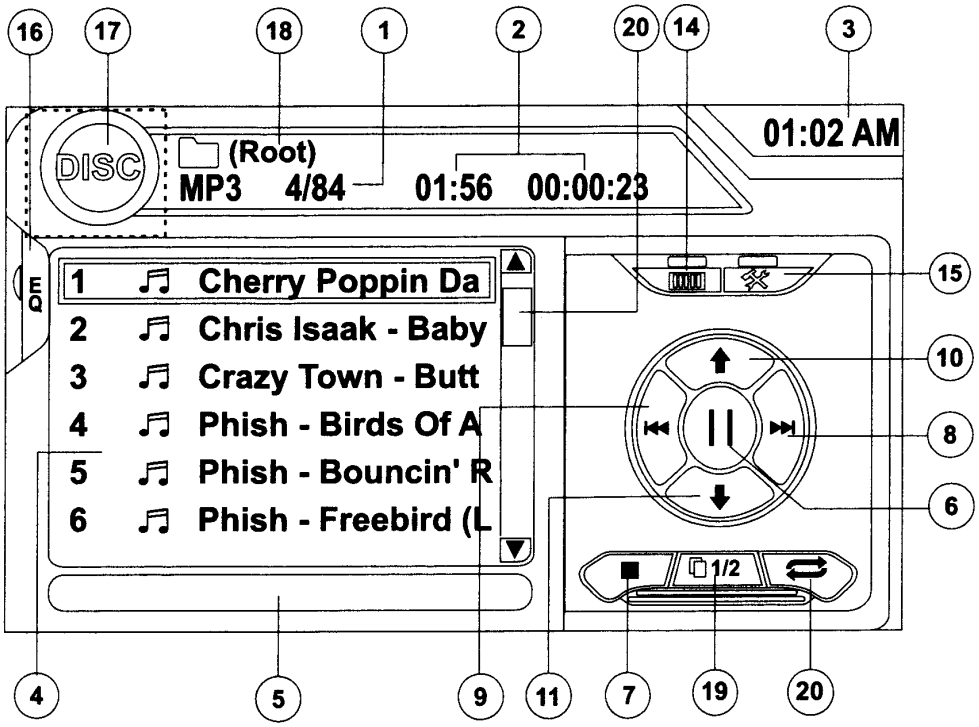
Listeners can subscribe to XM® Radio on the Web by visiting www.xmradio.com, or by calling (800) 967-2346. Customers should have their Radio ID ready. Customers can receive a limited number of free-to-air channels without activation.

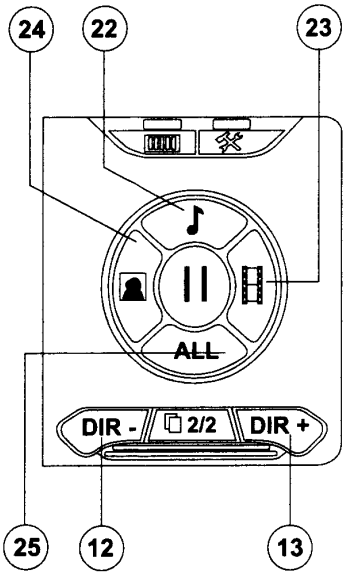


1. SAT channel name
2. SAT channel number
3. SAT band
4. Time
5. Song title
6. Artist name
7. Song category

8. Signal strength indicator.
9. Current preset channels/on-screen preset buttons.
10. **CH -**: Select the previous channel.
11. **CH +**: Select the next channel.
12. **CAT +**: Select next channel in current category only.
13. **CAT -**: Select previous channel in current category only.
14. Touch to enter channel directly using keypad on screen.
15. **CG**: Access Channel/Category Guide mode. Use the scroll bar and arrows on the touch screen to view the next/previous page of channels/categories.
16. **BAND**: Change between SAT1, SAT2 and SAT3 bands.
17. Touch to view the SETUP menu.
18. Touch this area to view the SOURCE MENU and select a new playback source.
19. **MEM**: View screen used to enter current channel into preset memory.
20. **DIAG**: This feature is reserved for use by service professionals for troubleshooting.

MP3/WMA Operation



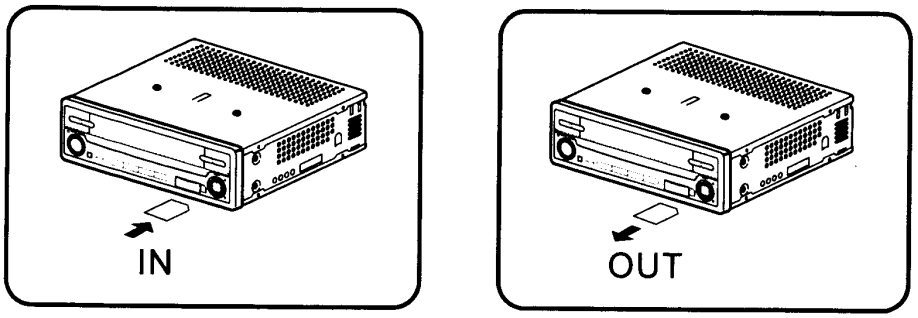


1. Current file and total number of files on your media device
2. Elapsed playing time
3. Current time
4. Track titles
5. ID3 information
6. ▶/||: Touch to play/pause disc playback.
7. ■: Touch to stop disc playback.
8. **>>|**: Touch to move to next track.
9. **|<<**: Touch to move to previous track.
10. ⬆: Touch to view the next page of songs.
11. ⬇: Touch to view the previous page of songs.
12. **DIR -**: Touch to view the previous folder.

13. **DIR +**: Touch to view the next folder.
14. Touch to access the direct entry screen.
15. 🛠: Touch to view the SETUP menu.
16. Touch for quick access to Equalizer level settings.
17. Touch to view the SOURCE MENU and select a new playback source.
18. Folder name
19. **1/2** or **2/2**: Touch this page button to view a second page of on-screen buttons.
20. Touch the scroll bar and arrows to view the previous/ next page of songs.
21. Touch to activate/deactivate Repeat play mode.
22. Touch to access the Music menu.
23. Touch to access the Video menu.
24. Touch to access the Photo menu.
25. Browse all files.

Loading an SD Card

Insert an SD card (up to 8GB) into the SD slot on the front of the radio. The unit will read the media files on the card automatically.

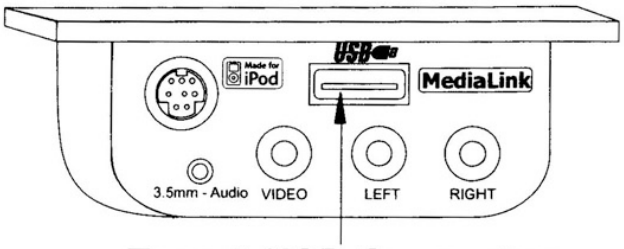


To remove the card, first press the **SRC** button to switch to another mode and stop SD playback. Pull the SD card out to remove it.

MP3/WMA Operation (continued)

Loading a USB Device

1. Locate the USB jack on the MediaLink4.



Type A USB Connector

2. Insert the USB device into the USB connector. The unit will read the media files on the USB device automatically.

To remove the USB device, press the **SRC** button to switch to another mode and then remove the USB device from the USB connector.

NOTE **The USB port will recognize most USB flash memory devices, as well as portable hard drives with audio / video files. The hard drive must be formatted to FAT32. The head unit operating system does not support NTFS file structure.**

MP3/WMA Media and File Requirements

This player allows you to play back up to 1500 MP3 and WMA files recorded onto CD-R/RWs, DVD+R/RWs, and DVD-R/RWs.

- For CD-RW discs, please make sure it is formatted using the full method and not the quick method to prevent illegal disc operation.
- When burning MP3/WMA files onto a DVD disc, use the 2X or 4X burning option, if available. This slower burning speed will help eliminate buffer errors and increase disc reading reliability. Also, use folders when burning large numbers of songs/files to a disc for easy music navigation. Select the "Disc at Once" option and close your disc.

MP3 Playing Order

Files and folders (Folder Search, File Search or Folder Select) are accessed in the order they were written by the CD writer. You may be able to set the order in which MP3/WMA files are to be played by writing them onto a medium such as a CD-R with their file names beginning with play sequence numbers such as "01" to "99".

This player will only recognize three folder levels and does not display folders containing only other folders.

Bluetooth Operation

Bluetooth is a short-range wireless radio connectivity technology that is developed as a cable replacement for mobile phones, handheld PCs and other devices. Bluetooth operates in 2.4 GHz frequency range and transmits voice and data at speeds up to 1 megabit per second.

The BTM10 (purchased separately) is required for Bluetooth operation.

Pairing your Phone

1. Press the ((button to initiate the pairing process. Keep the mobile phone within 2 meters of the head unit when pairing.
2. Select the Bluetooth setup option on the mobile phone to be paired (please refer to the phone's instruction manual).
3. If prompted, enter the "pass key" or pairing code. The dafault code for many phones is "0000". The default code for the VM9413 is "1234".
4. Select "VM9413" from the pairing list on the mobile phone.

Hands Free Profile (HFP)

To use a phone wirelessly with this unit, it is necessary to first establish a connection using Bluetooth wireless technology. Connection is normally established using HFP (Hands Free Profile), which gives you full control of functions available on the telephone source. However, depending on your phone, the connection may be made using HSP (Head Set Profile), making some functions unavailable. This is a limitation of your phone, not the VM9413.

NOTE **The line-of-sight distance between this unit and your cellular phone must be 8 meters or less, depending on the environment.**

Menu List

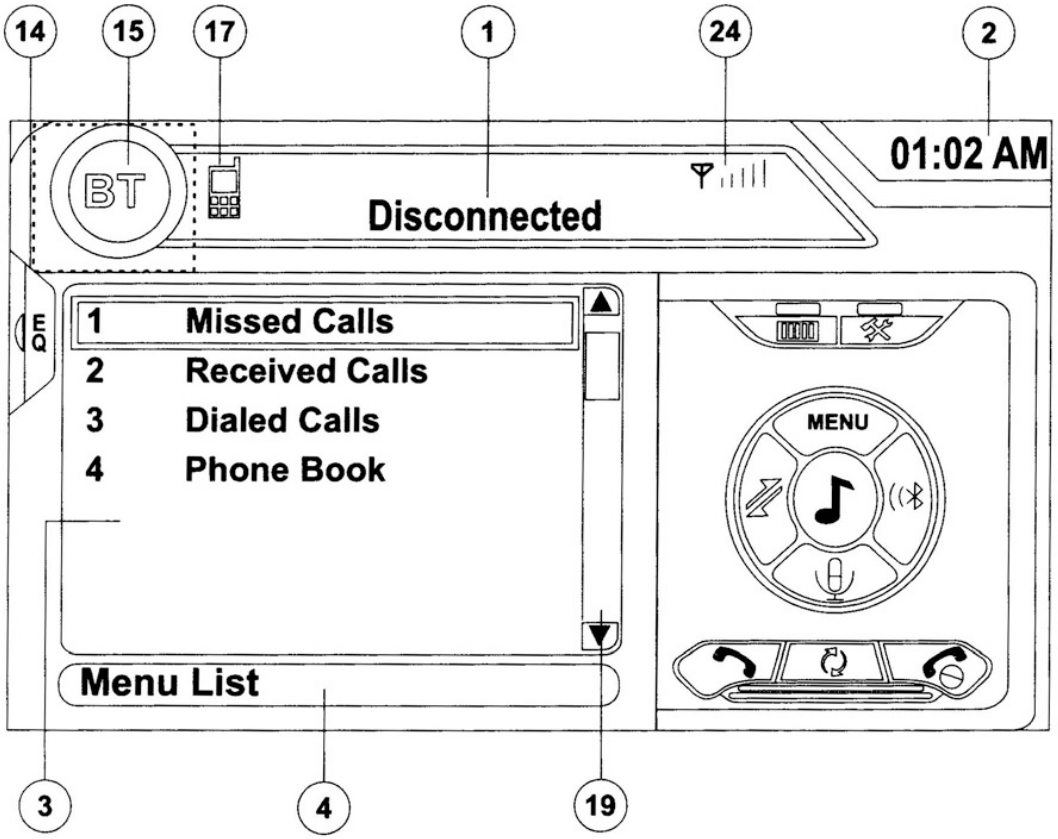
The menu list appears on the left side of the screen and can be accessed from other modes by touching the MENU button on the right side of the screen.

To make a call from a list, touch the number and then touch the ↩ button.

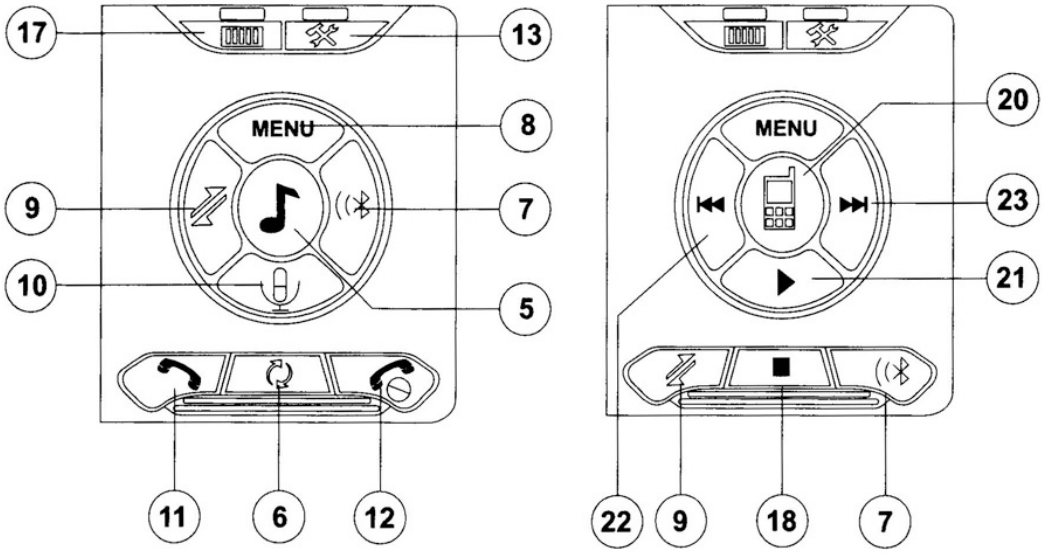
- **Missed Calls**: The Missed Calls list retrieves the list of Missed numbers from your phone. The last missed number is the first number on the list. Touch the Missed Calls menu option to view the list.
- **Dialed Calls**: The Dialed Calls list retrieves the list of dialed numbers from your phone. The last dialed number is the first number on the list. Touch the Dialed Calls menu option to view the list.
- **Received Calls**: Use the Received Calls list to view the last 10 received numbers stored on your phone. To access the Received list, touch the Received Calls menu option. The last received number is the first number on the list.
- **Phone Book**: Touch the Phone Book menu option to display the phone book stored on your mobile phone, if compatible. The screen will display "Ready..." while the phone book is downloading. Once the download is completed, you can use the arrow buttons and scroll bar on the right side of the window to navigate the list. Since the unit downloads one page of entries at a time, there may be a slight delay while the next page of numbers is downloaded.

NOTE **Not all phones allow access to missed, received or dialed calls and some will not allow uploading of your phone's address book.**

Bluetooth Operation (continued)



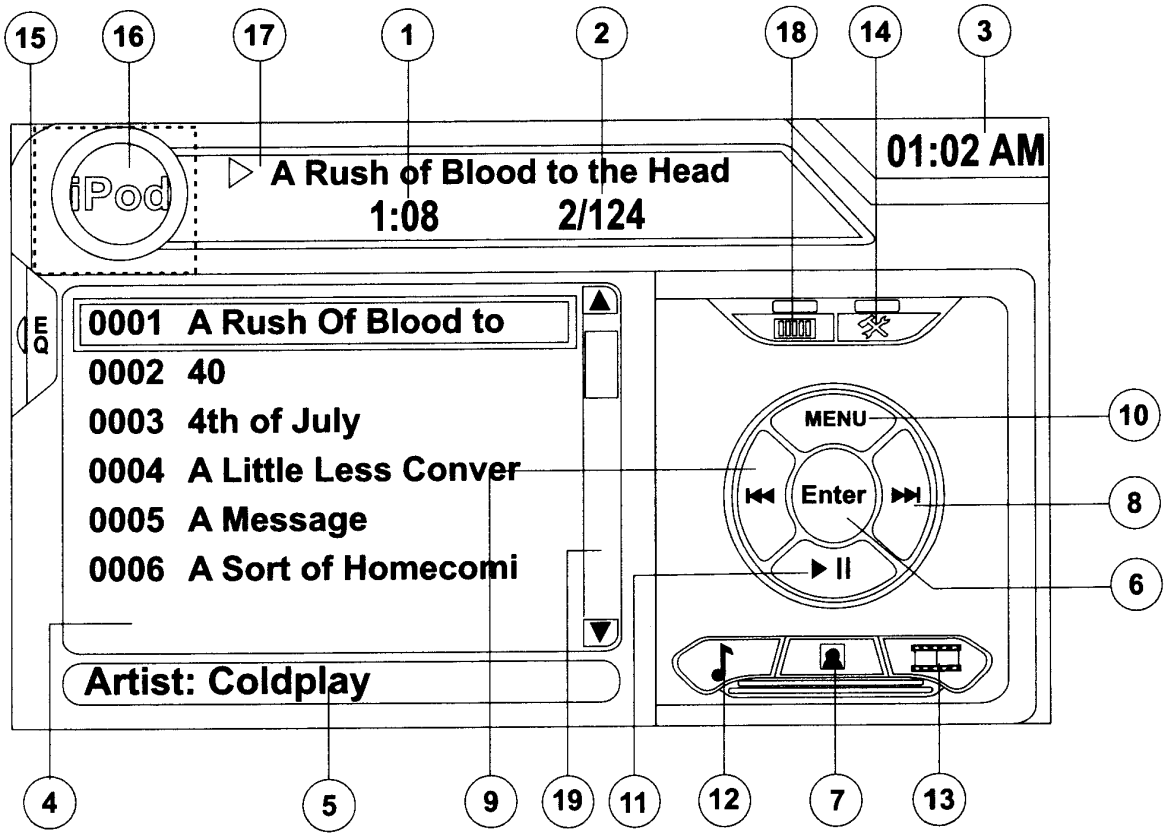
1. Current connection status/device connected
2. Current time
3. Bluetooth menu
4. Current operation status
5. Toggle Music/Phone menu.
6. Transfer active call back to handset.
7. Pair your Bluetooth phone (first time use).
8. Exit call listing display.
9. Connect/disconnect Bluetooth device (phone, PDA, personal music player, etc.) with hands-free function.



Touch the music/ phone icon in the middle of the circle to switch between phone interface (left) and music interface (right).

10. Mute/un-mute microphone during active call.
11. Answer incoming call/make call.
12. Reject incoming call/end call/quit pairing process/quit reading phone book or call listing.
13. Touch to view the SETUP menu.
14. Touch to view the equalizer.
15. Touch to view the SOURCE MENU and select a new playback source.
16. Indicates connection/current operation (--> indicates incoming call, <-- indicates dialing alert).
17. Touch to access the direct entry screen.
18. ■: Touch to stop A2DP playback.
19. Touch the scroll bar and arrows to view the previous/next page of choices (only visible when needed).
20. Toggle Music/Phone menu or mode.
21. Play/Pause selected file.
22. **|<<**: Touch to move to the previous file.
23. **>>|**: Touch to move to the next file.
24. Signal strength indicator

iPod Operation



1. Elapsed playing time for current file
2. File number and total number of files on the disc
3. Current time
4. File titles
5. ID3 information (Artist/Album)
6. Touch to "Enter"
7. Touch to access the Photo menu
8. Touch to move to next track
9. Touch to move to previous track
10. Touch to view the iPod main menu

11. Touch to play/pause disc playback.
12. Touch to access the Music menu.
13. Touch to access the Video menu.
14. Touch to view the SETUP menu.
15. Touch for quick access to Equalizer level settings.
16. View SOURCE MENU and select a new source.
17. Current file title
18. Touch to access the direct entry screen.
19. Touch the scroll bar and arrows to view the previous/ next page of songs.

Search Playlist/Artist/Album/Song

To search through Playlists, Artists, Albums and Songs, press the **MENU** button on the remote control while in one of the following directories: Playlist, Artist, Album or Song. The selected directory will be accessed with the number of pages and files in that directory displayed at the top of the page. To access the page or file, enter the page or file number directly from the remote control keypad. Press the **|<<** or **>>|** button on the remote control to select the desired song or file.

NOTE **To transmit the video from your iPod to the VM9413 screen, you must set the following options through the iPod video settings menu: TV Out = On, TV Signal = NTSC, and Widescreen = On.**

NOTE **After disconnecting your iPod, the VM9413 will always return to the last mode accessed when the iPod is plugged back into the unit.**

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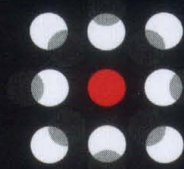

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